

FIG. 1

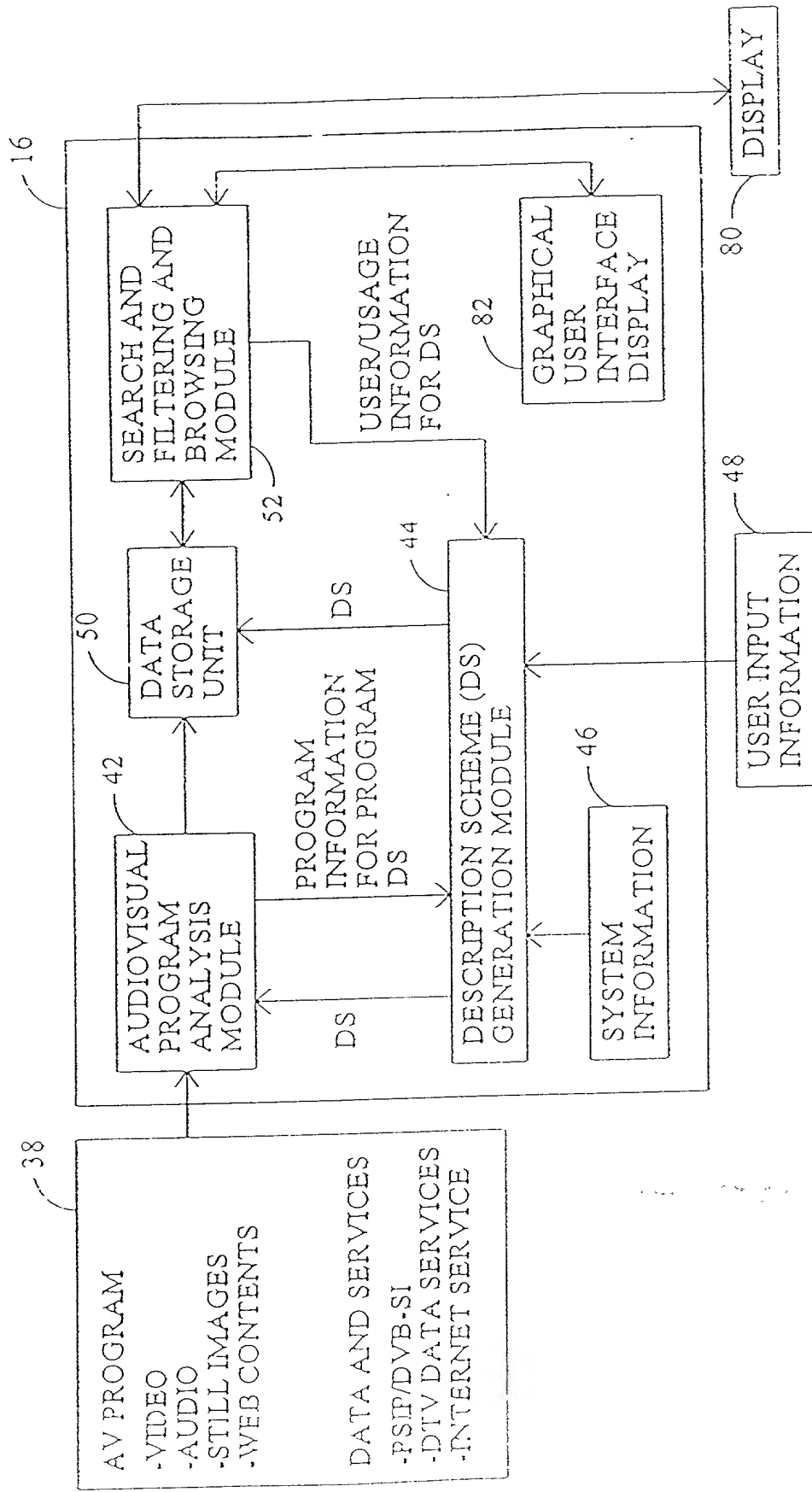


FIG. 2

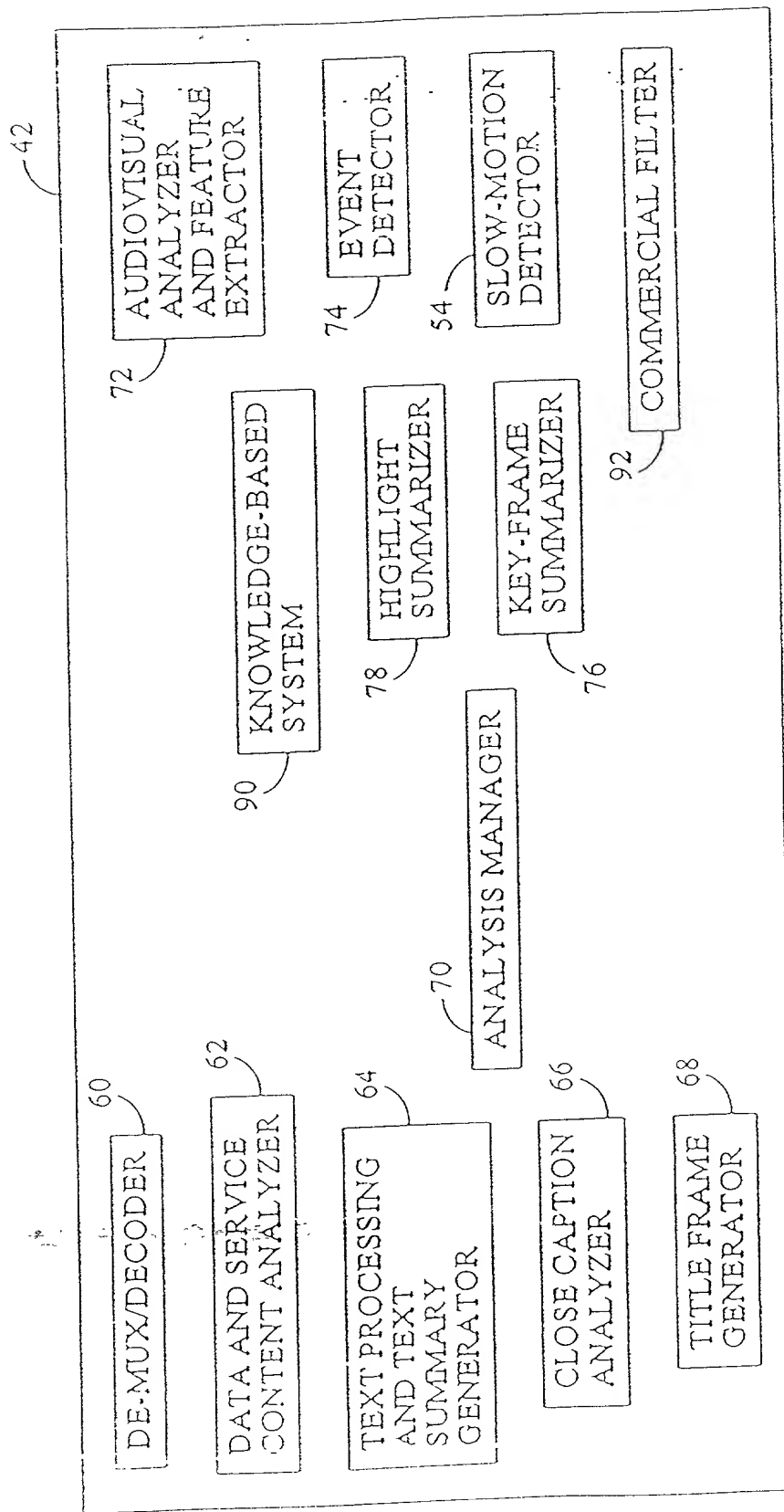


FIG. 3

Thumbnail View (Category)

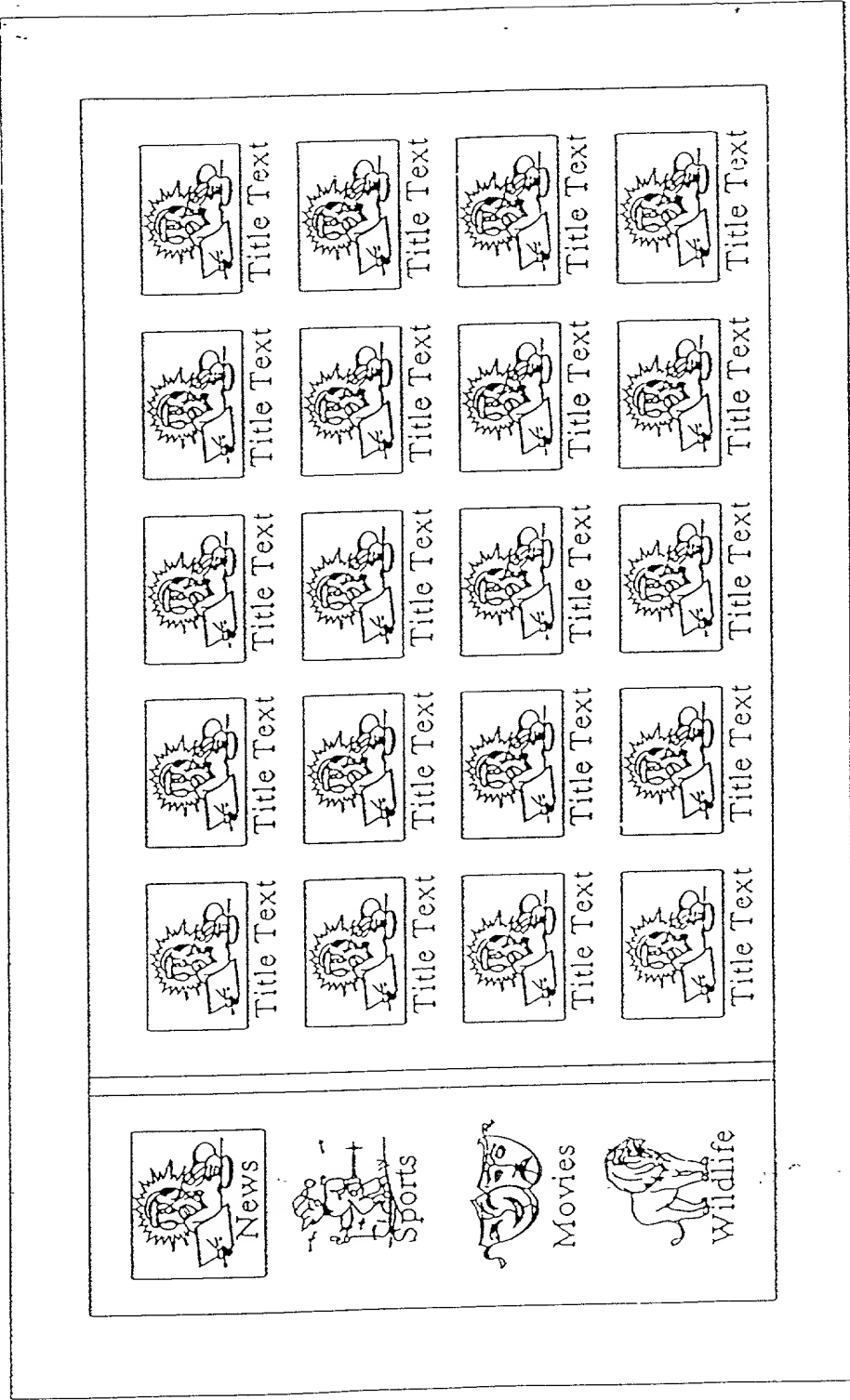


FIG. 4

Thumbnail View (Channel)

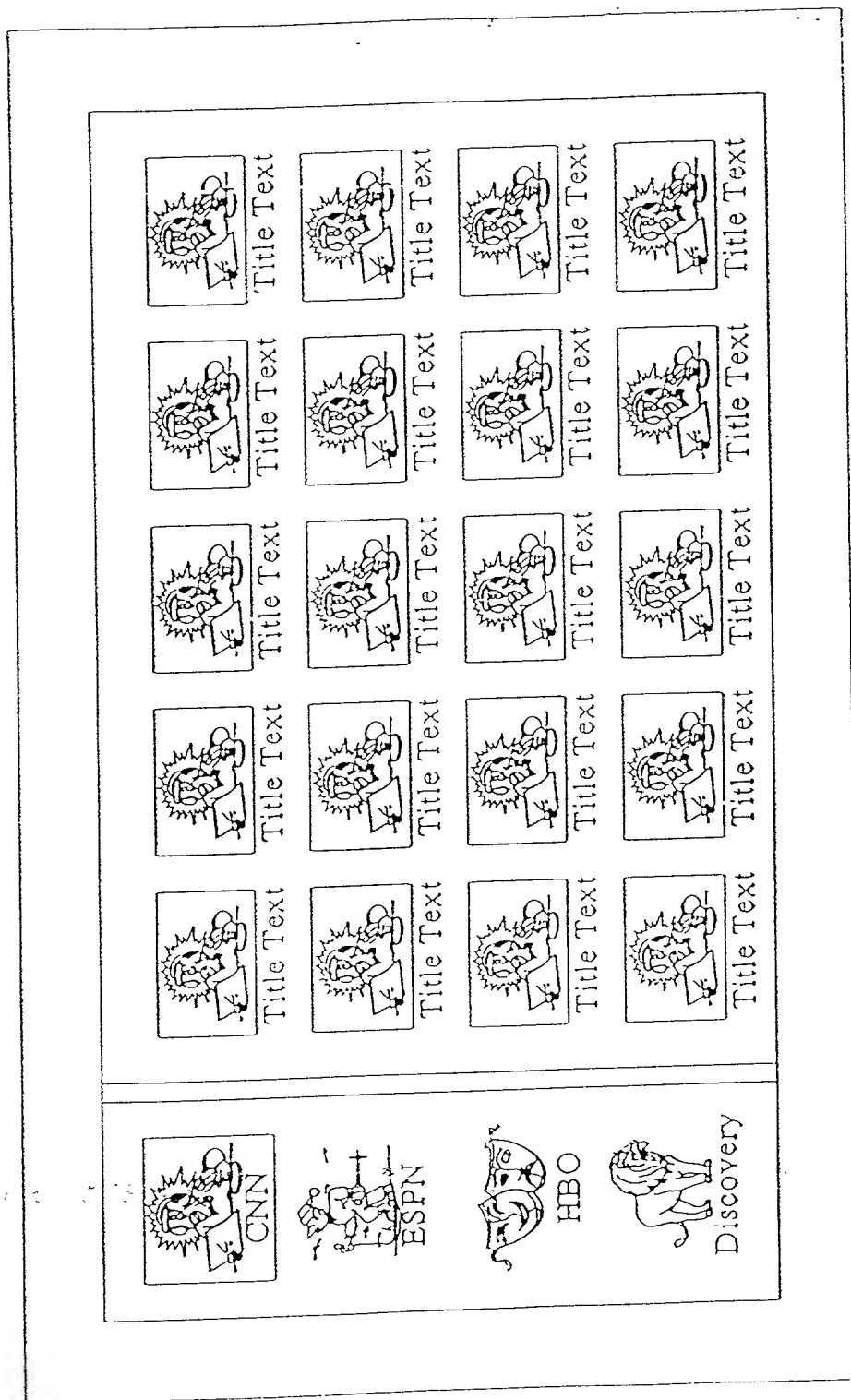


FIG. 5

Text View (Channel)

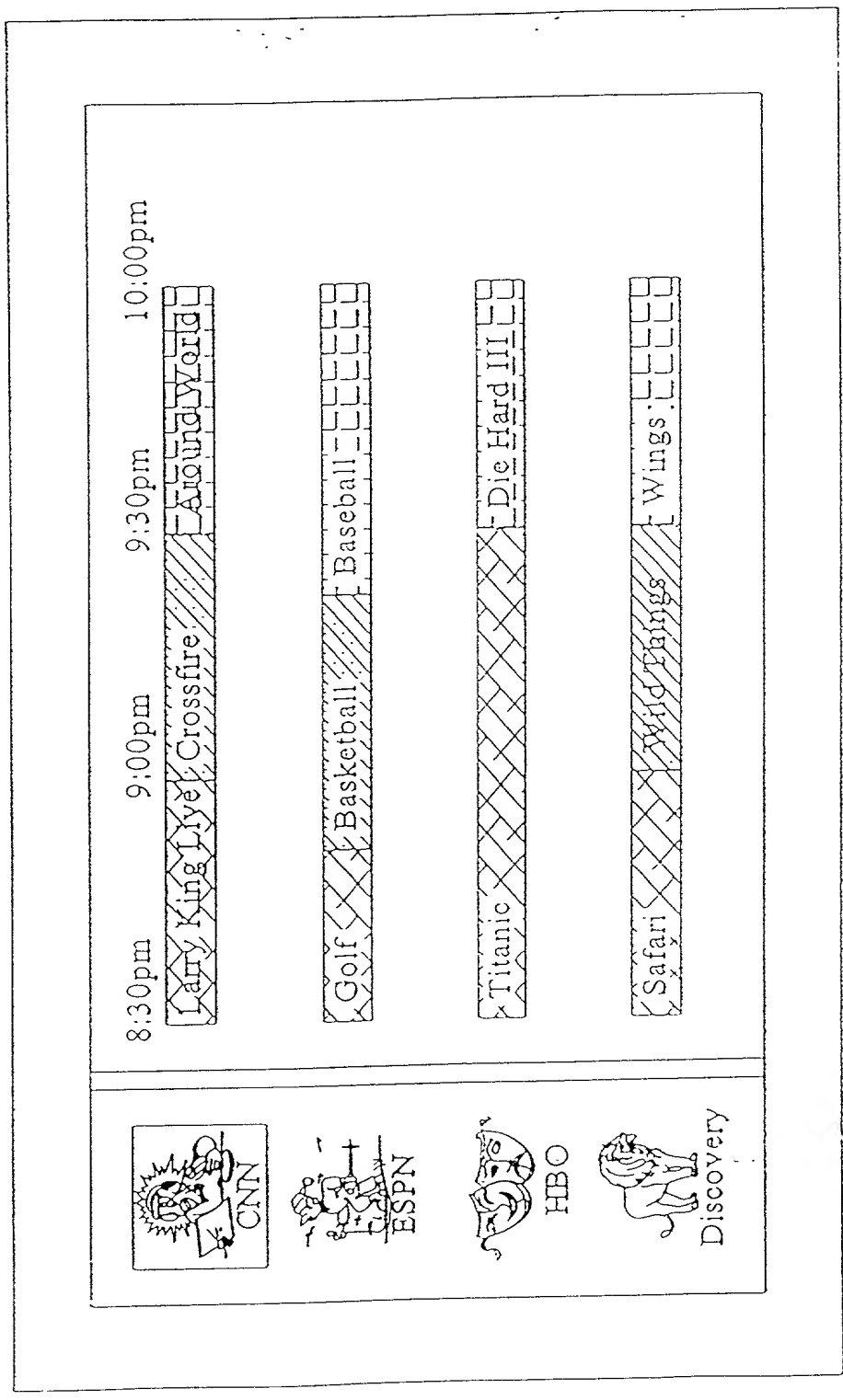


FIG. 6

Frame View

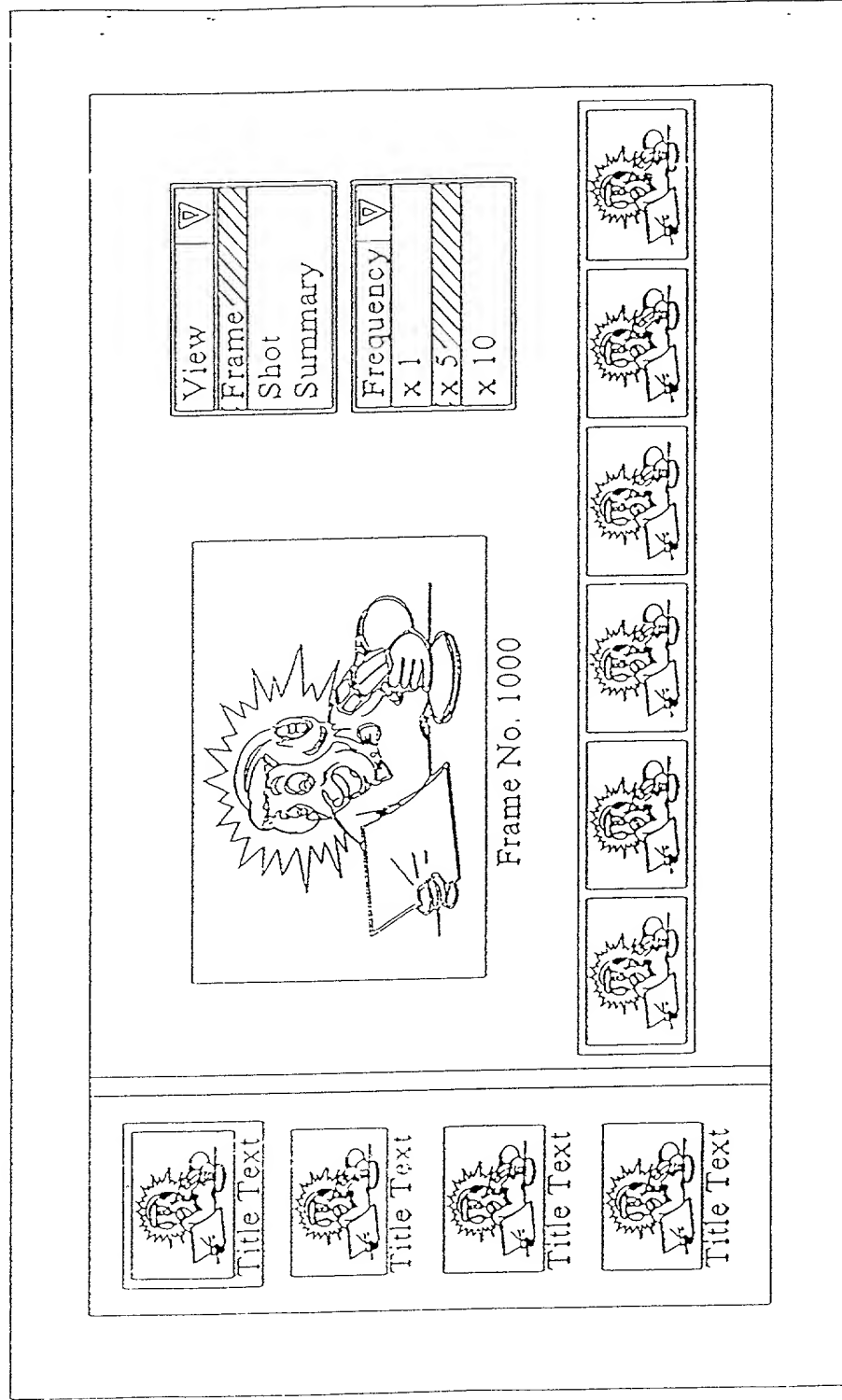


FIG. 7

Shot View

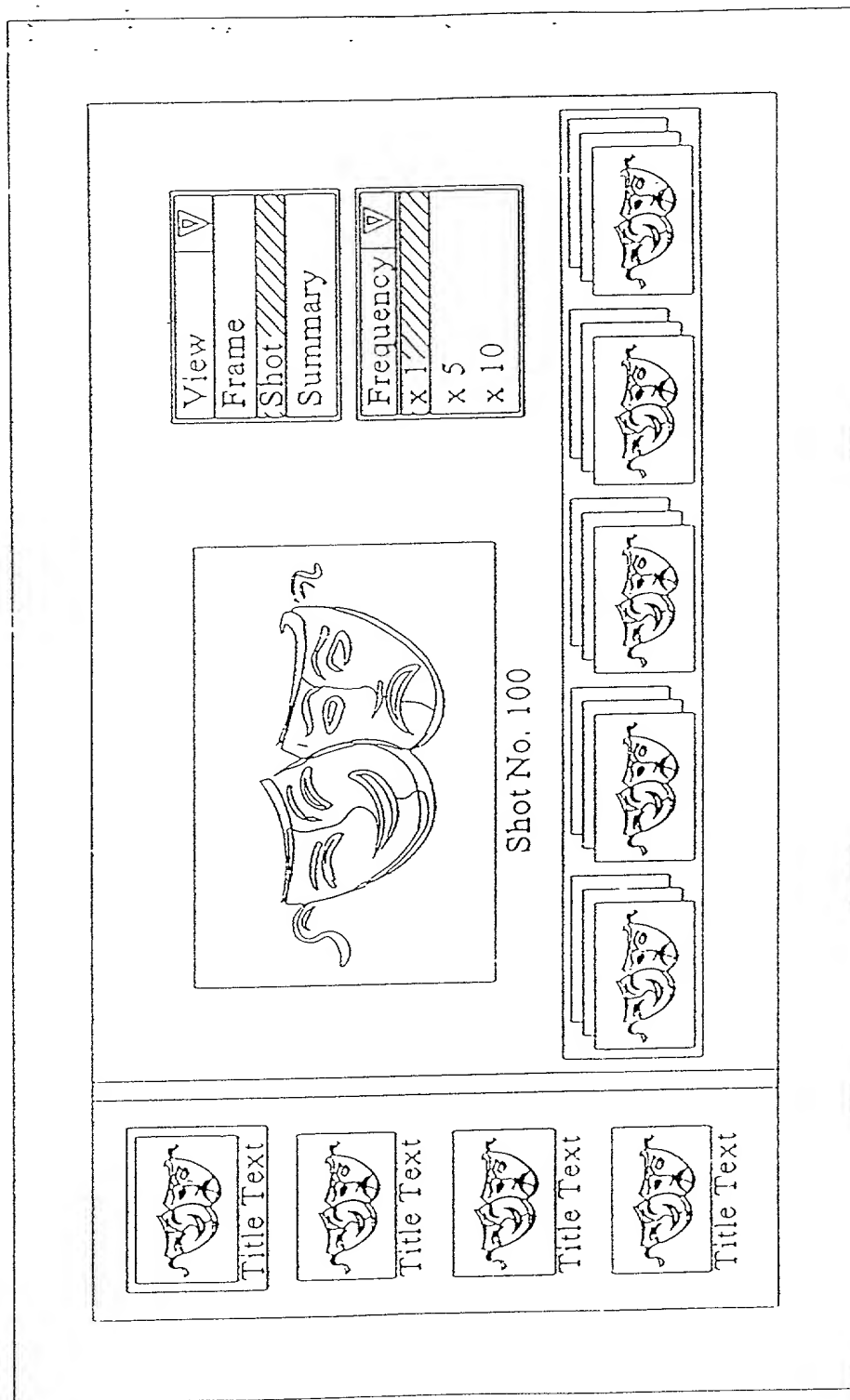


FIG. 8

Key Frame View

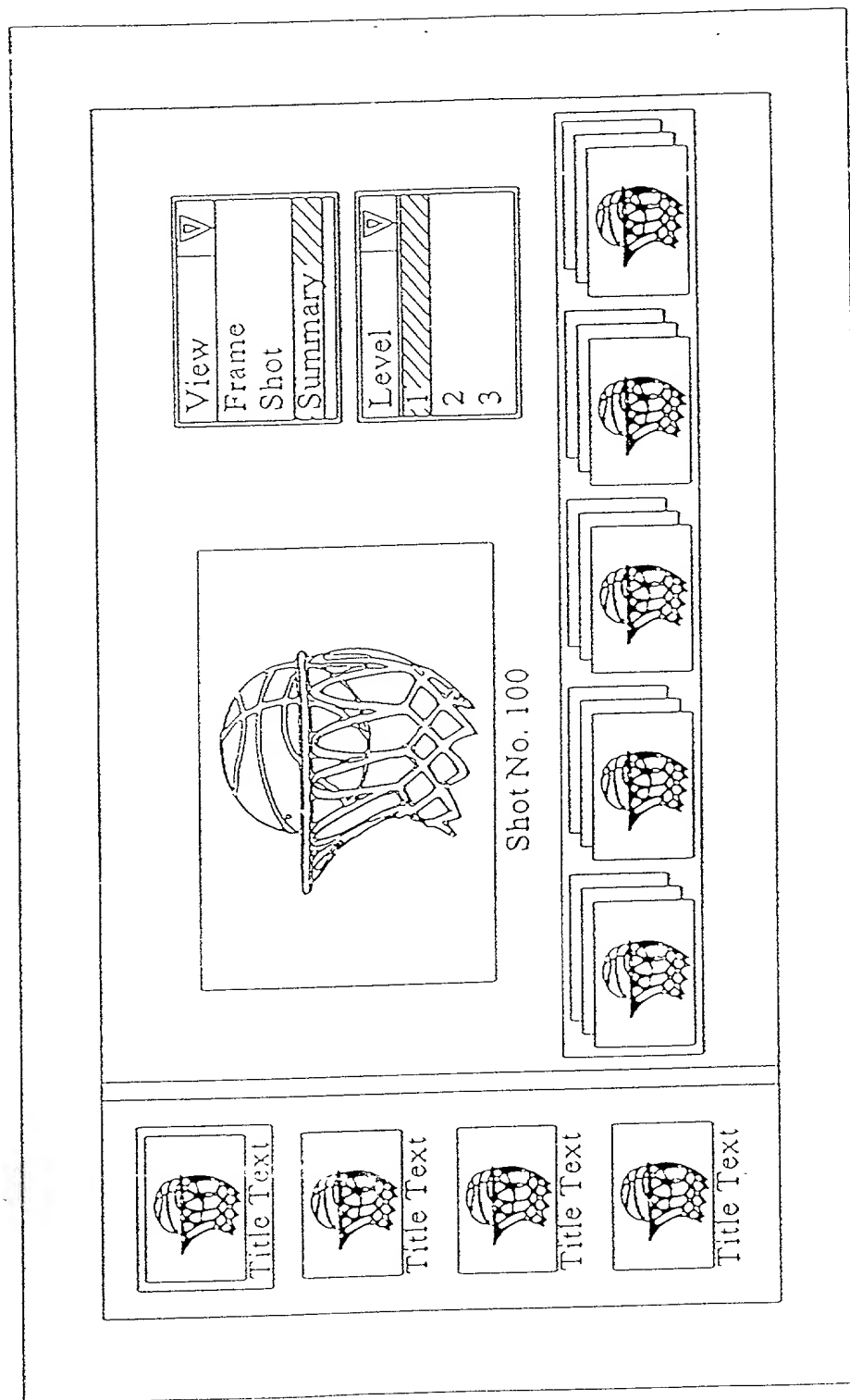


FIG. 9

Highlight View

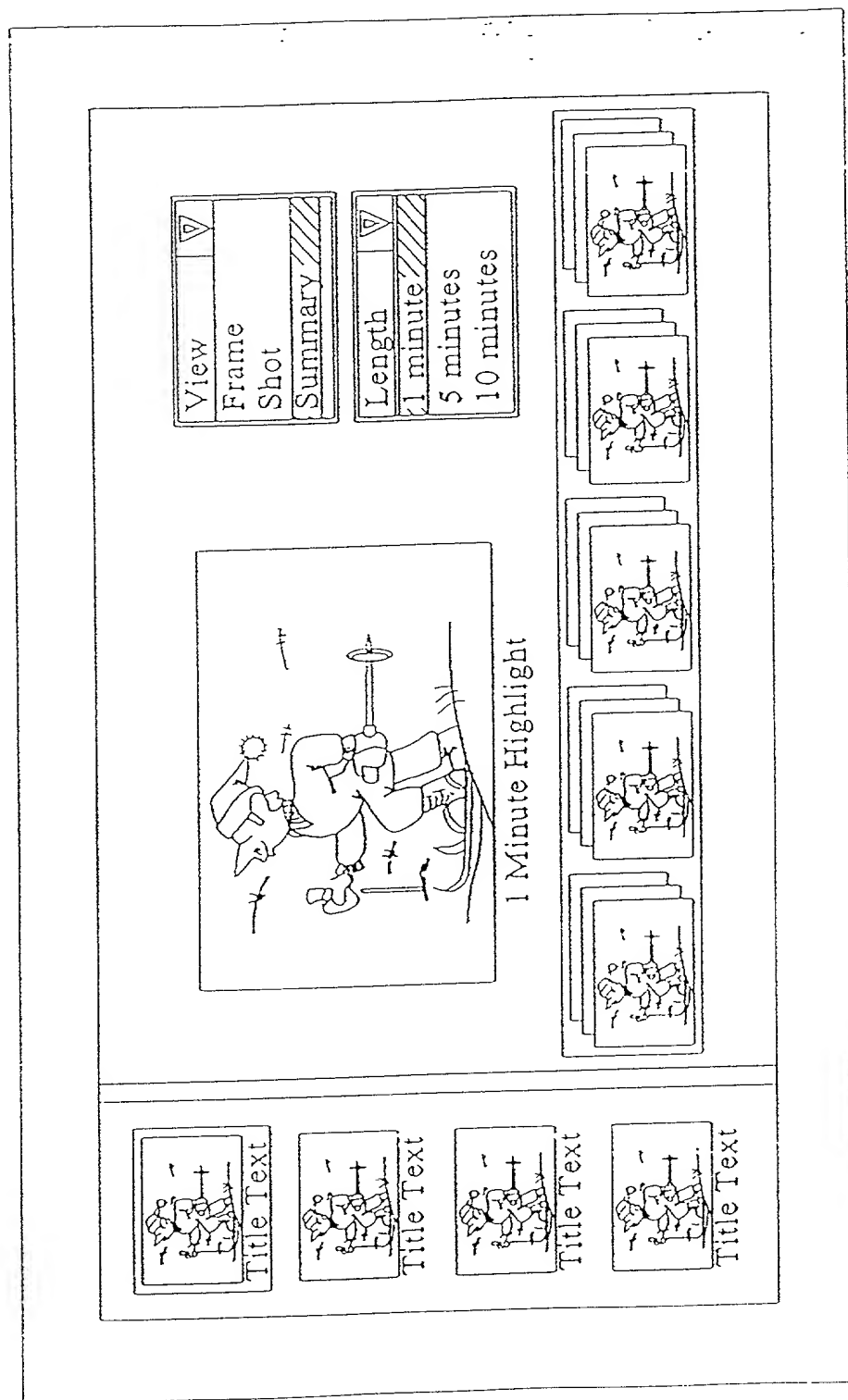


FIG. 10

Event View

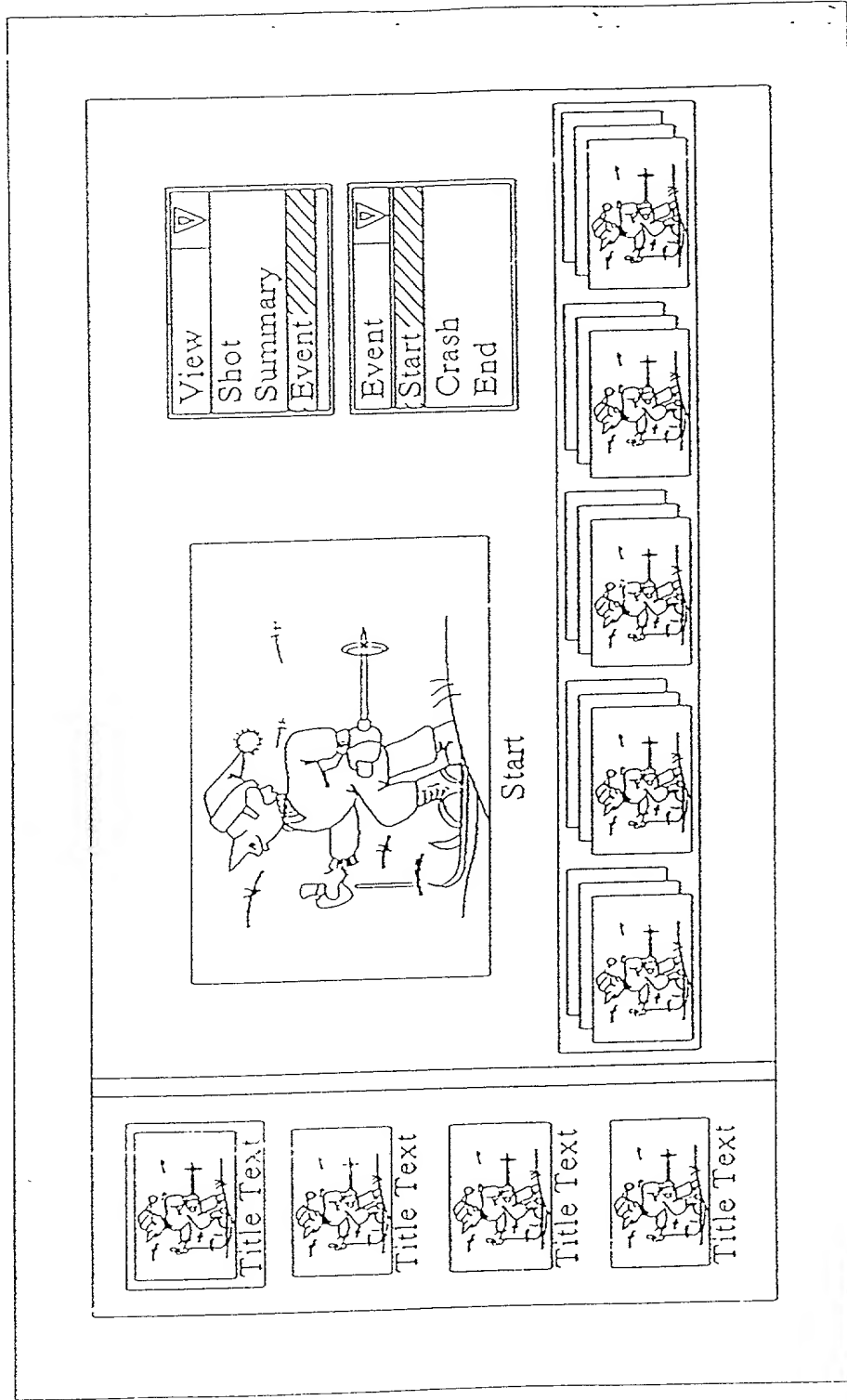


FIG. 11

Character/Object View

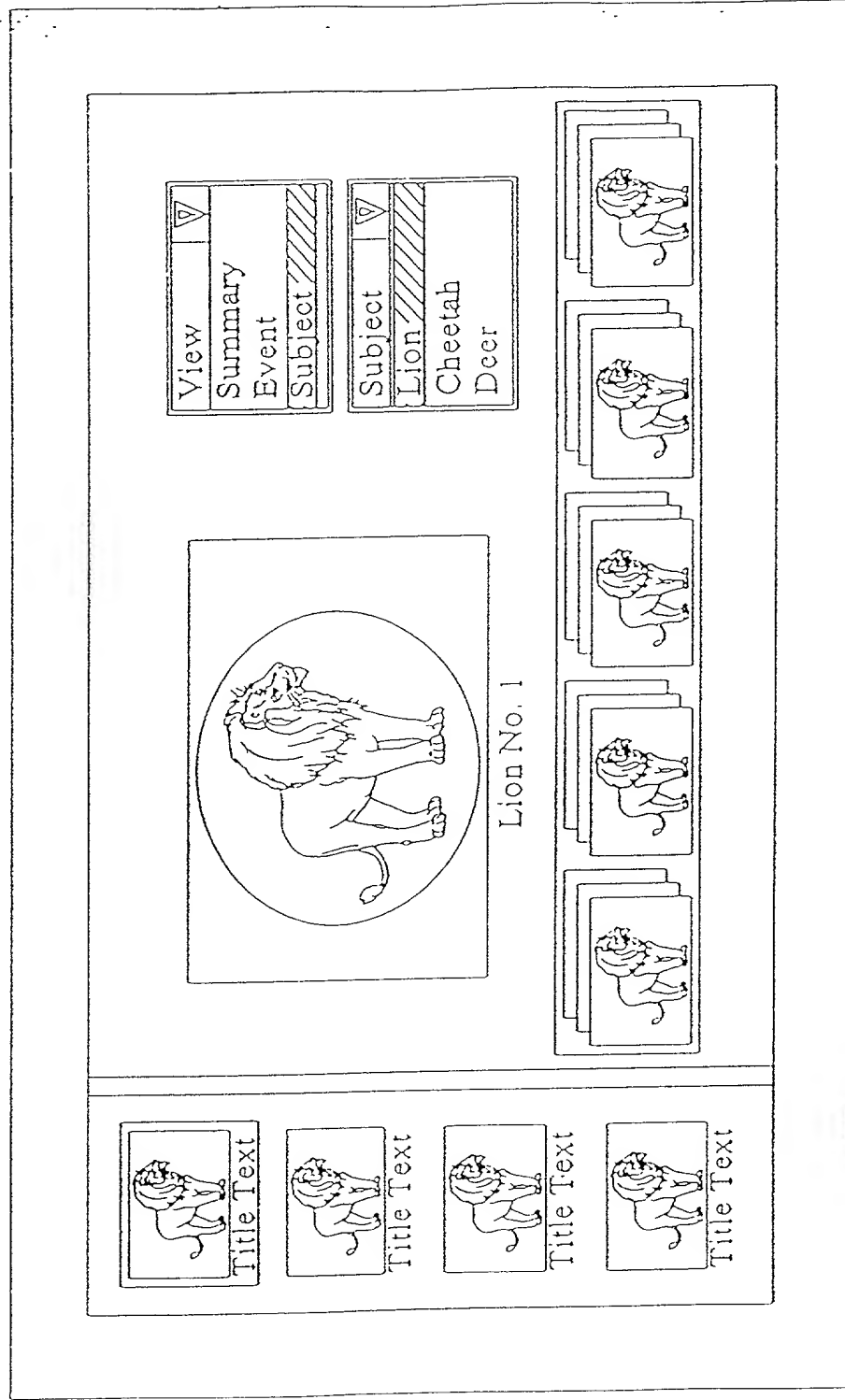


FIG. 12

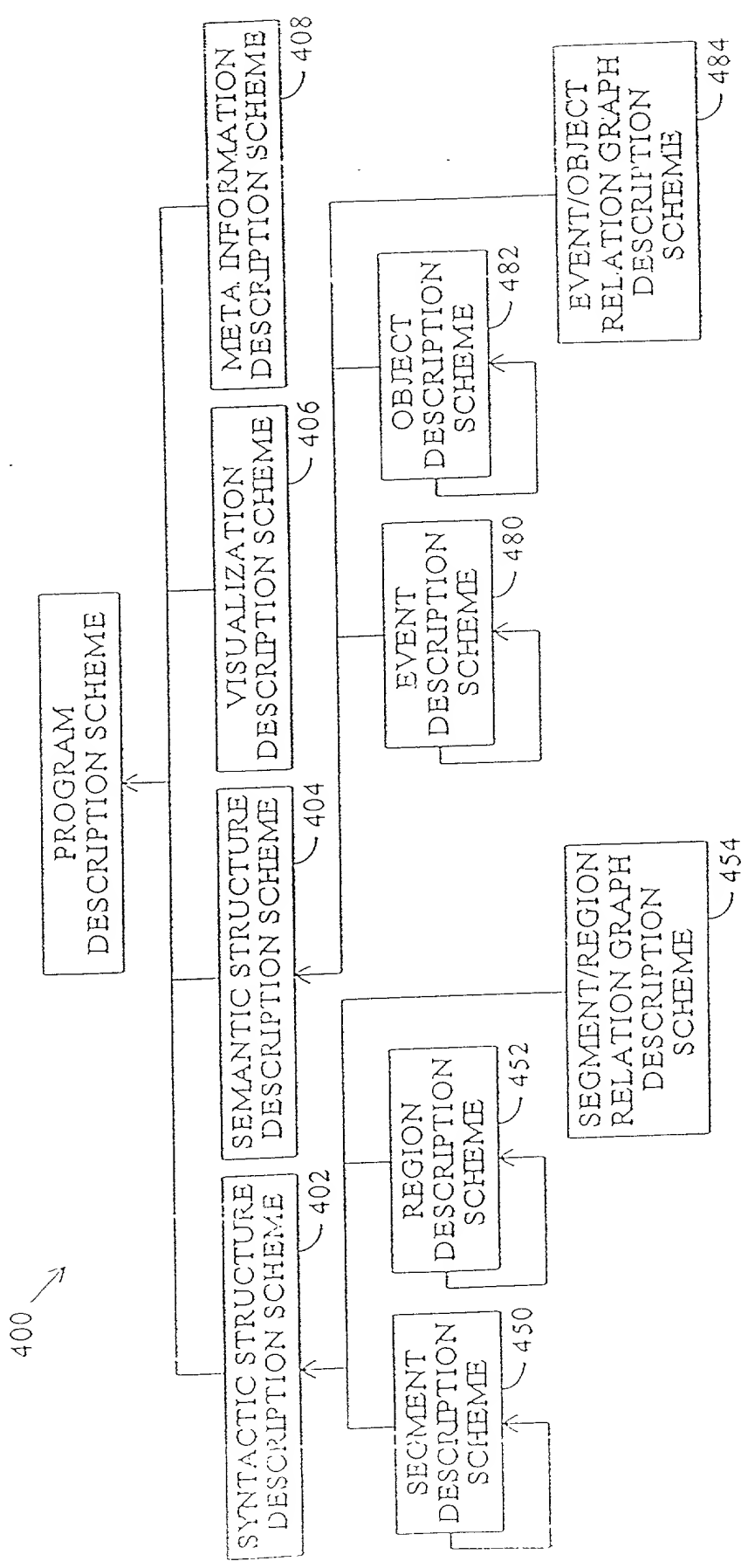


FIG. 13

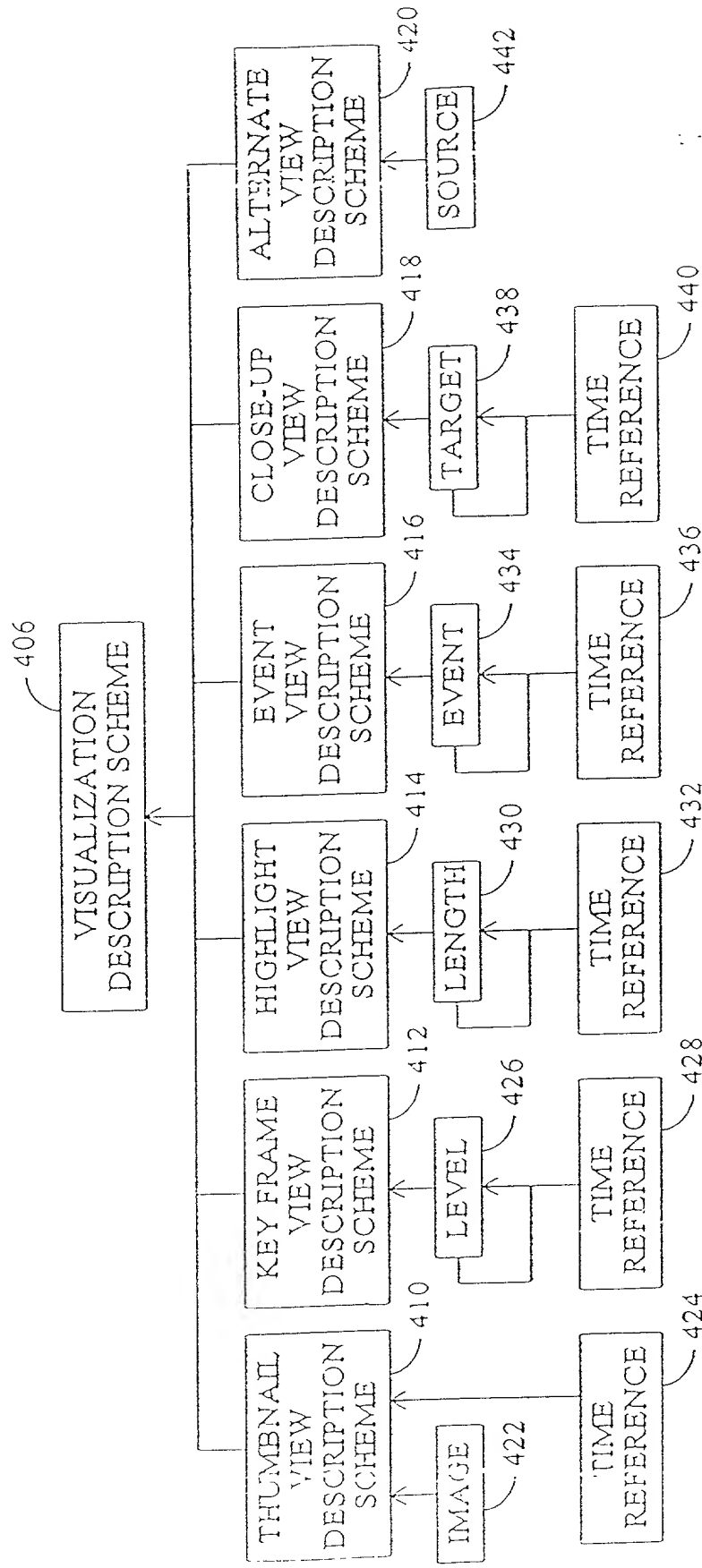


FIG. 14

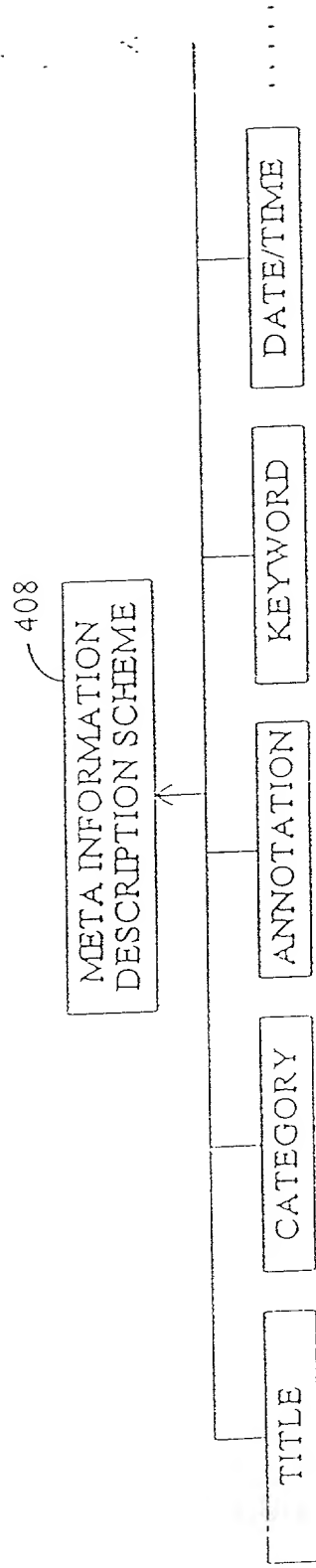


FIG. 15

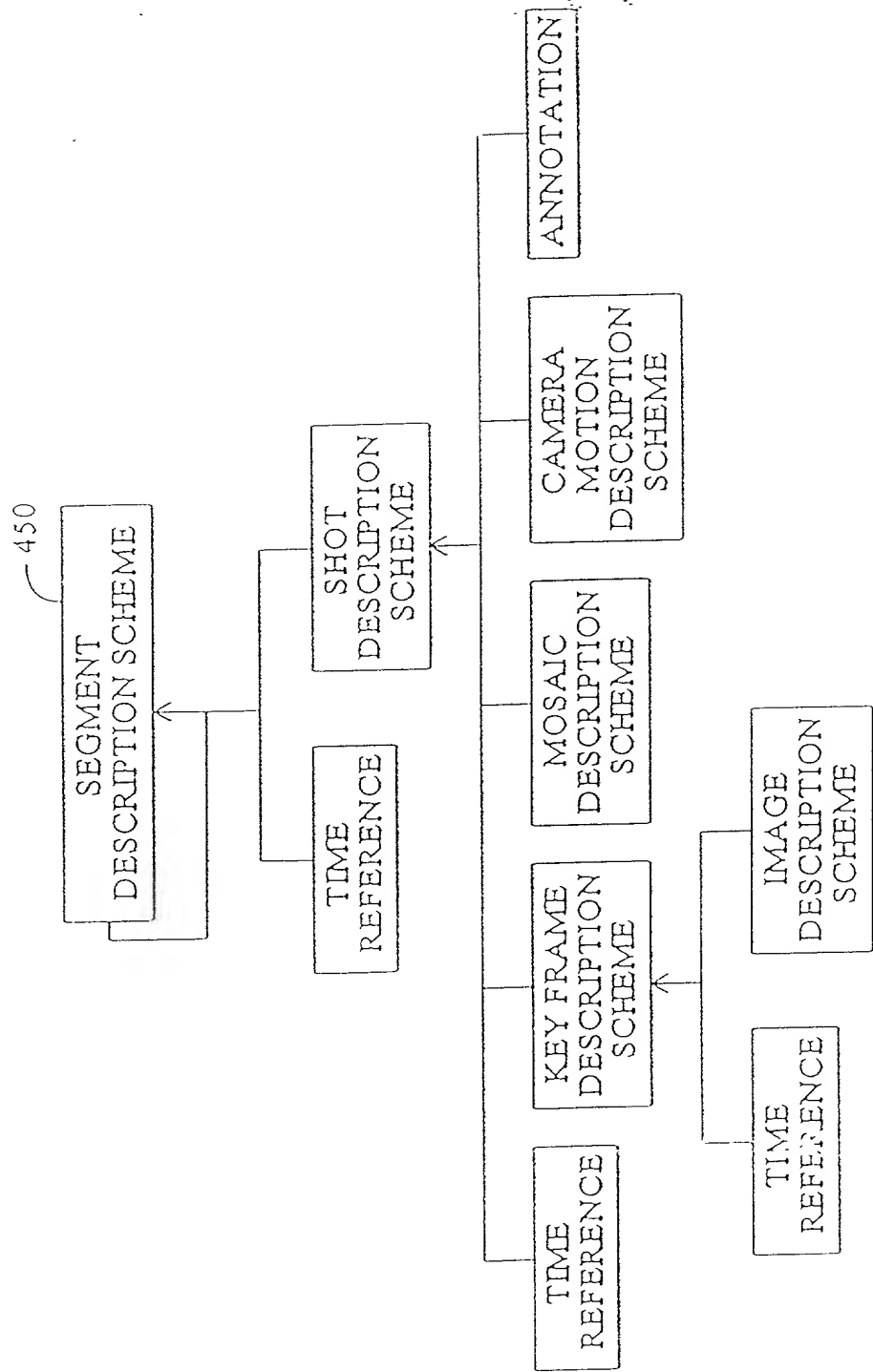


FIG. 16

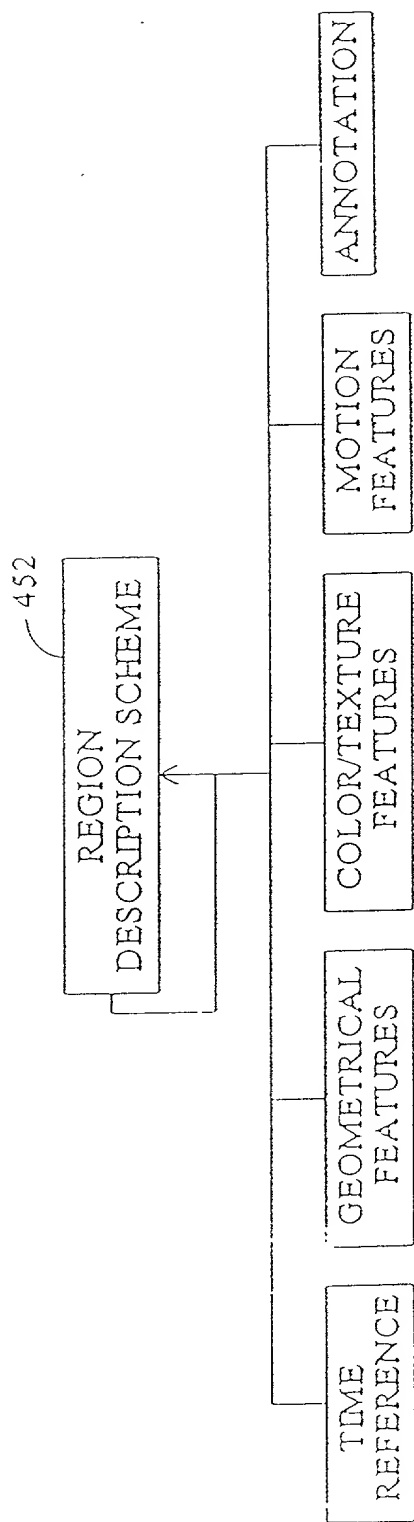


FIG. 17

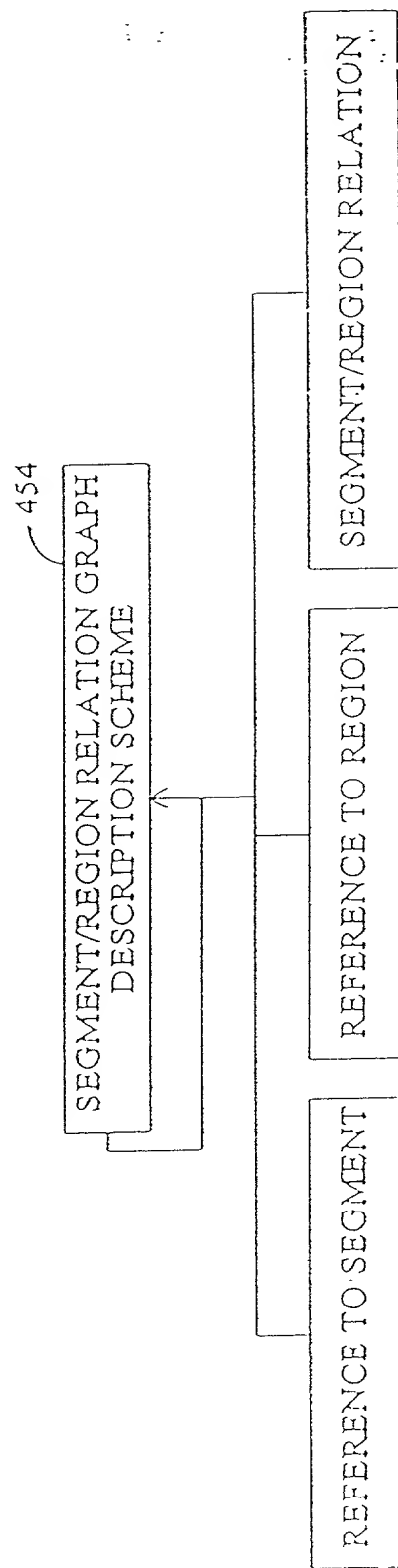


FIG. 18

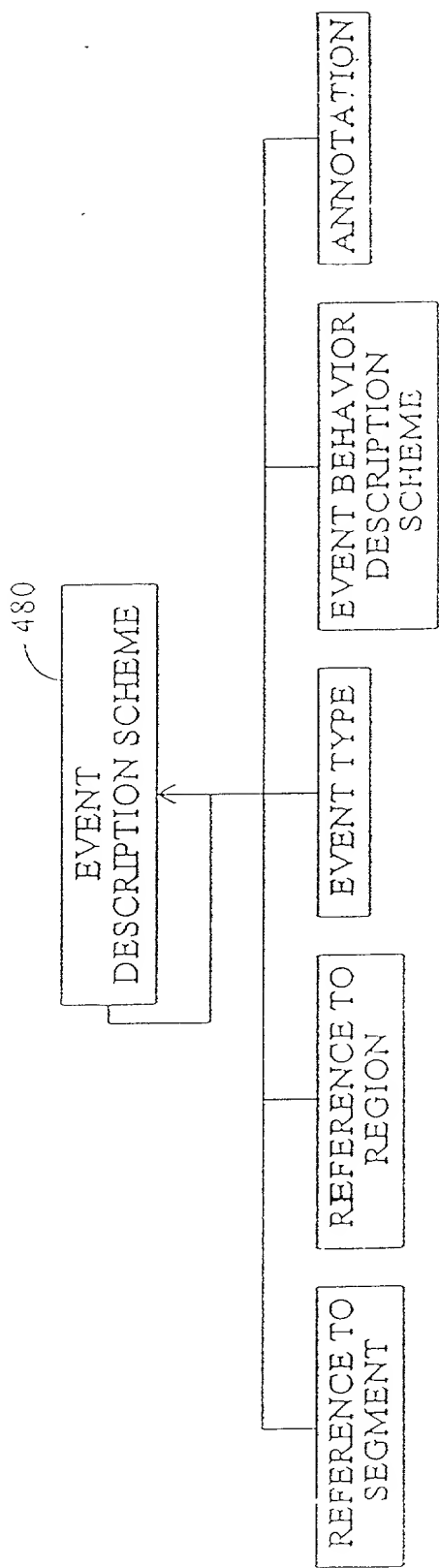


FIG. 19

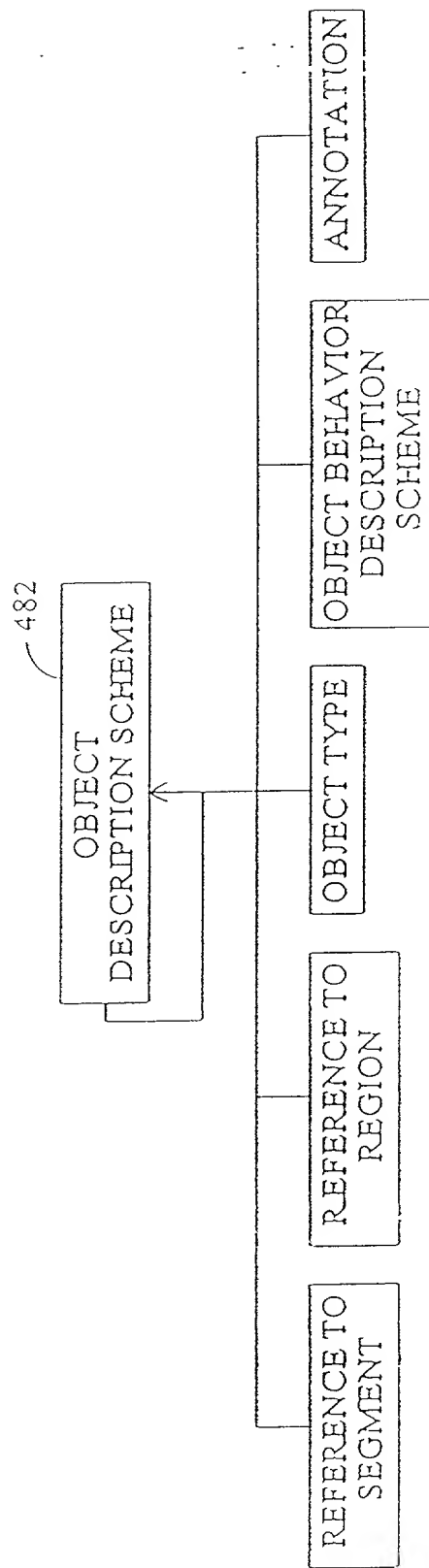


FIG. 20

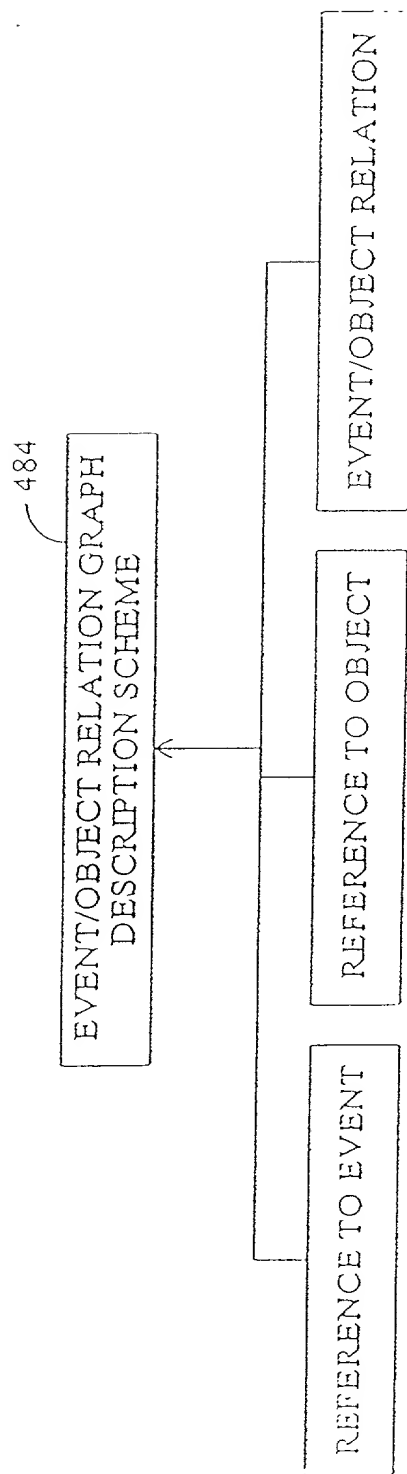


FIG. 21

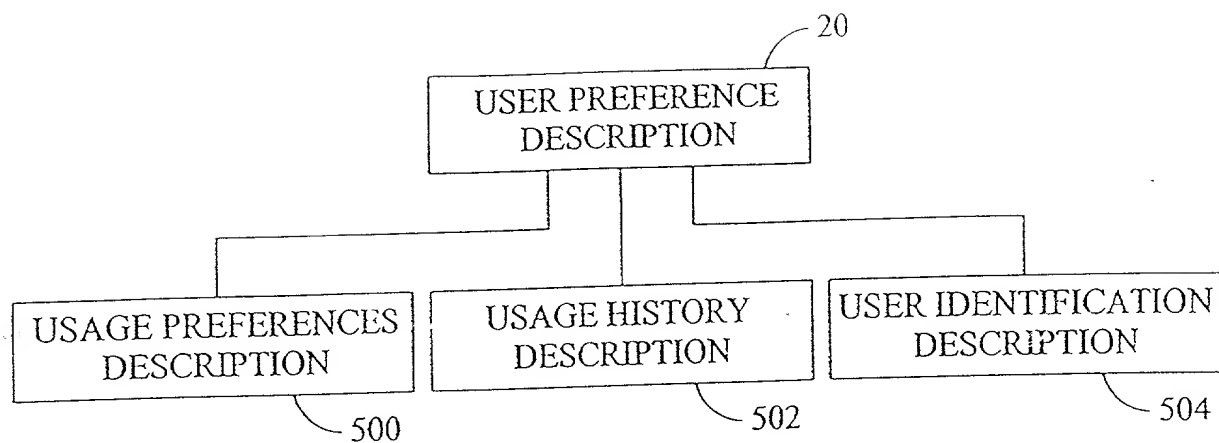


FIG. 22

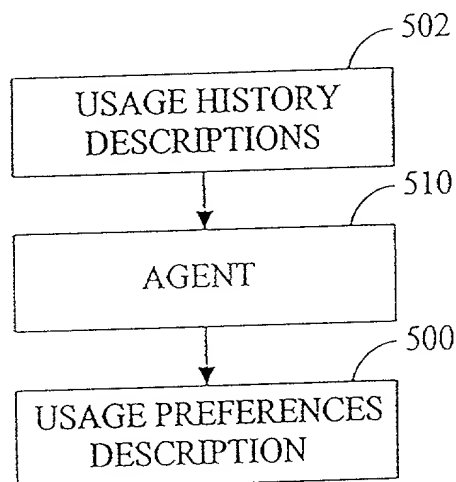


FIG. 23

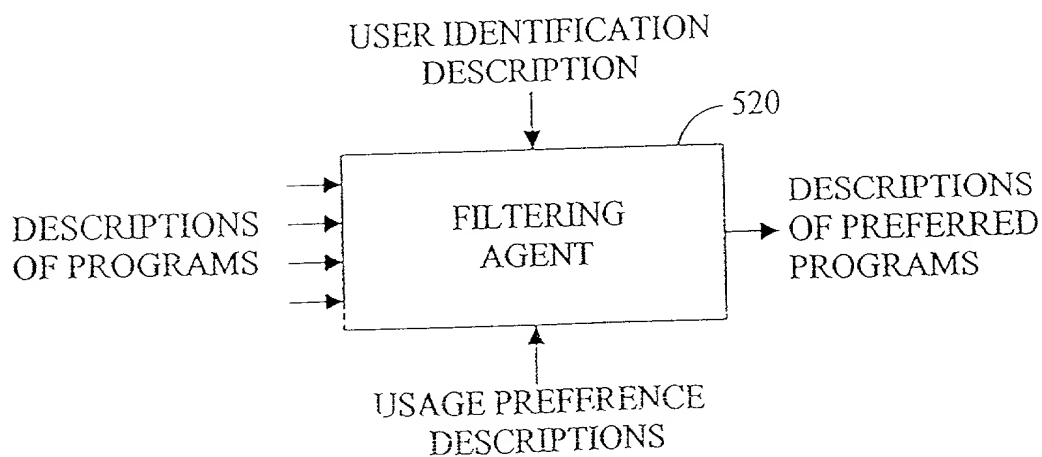


FIG. 24

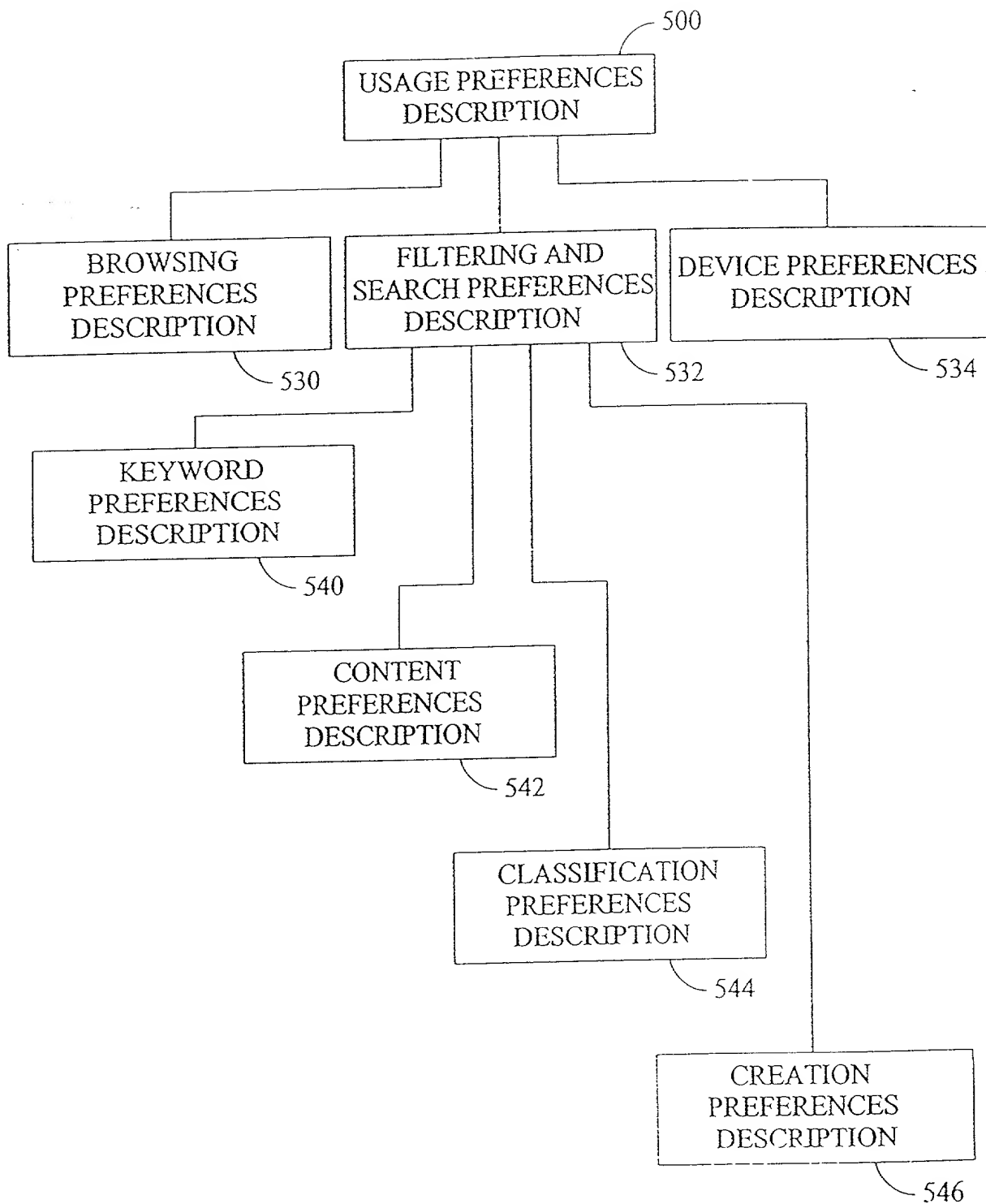


FIG. 25

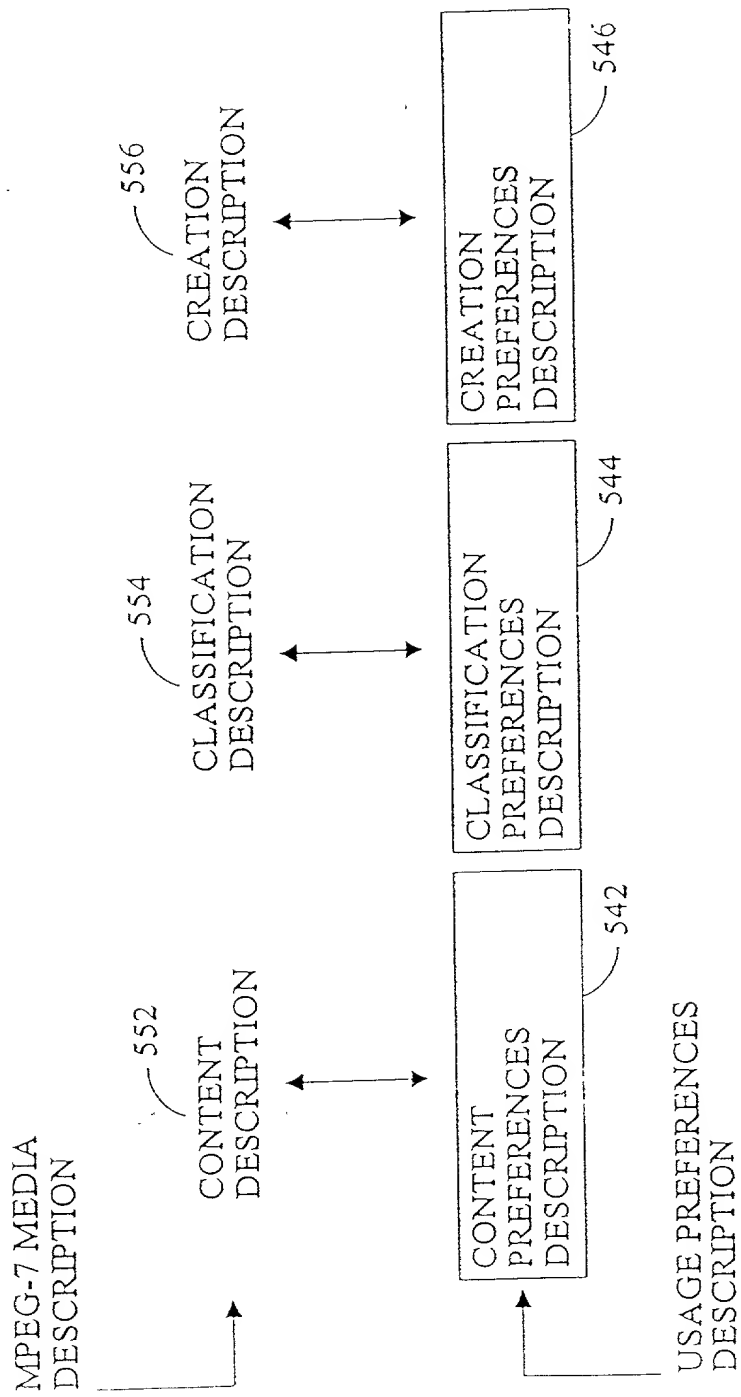


FIG. 26

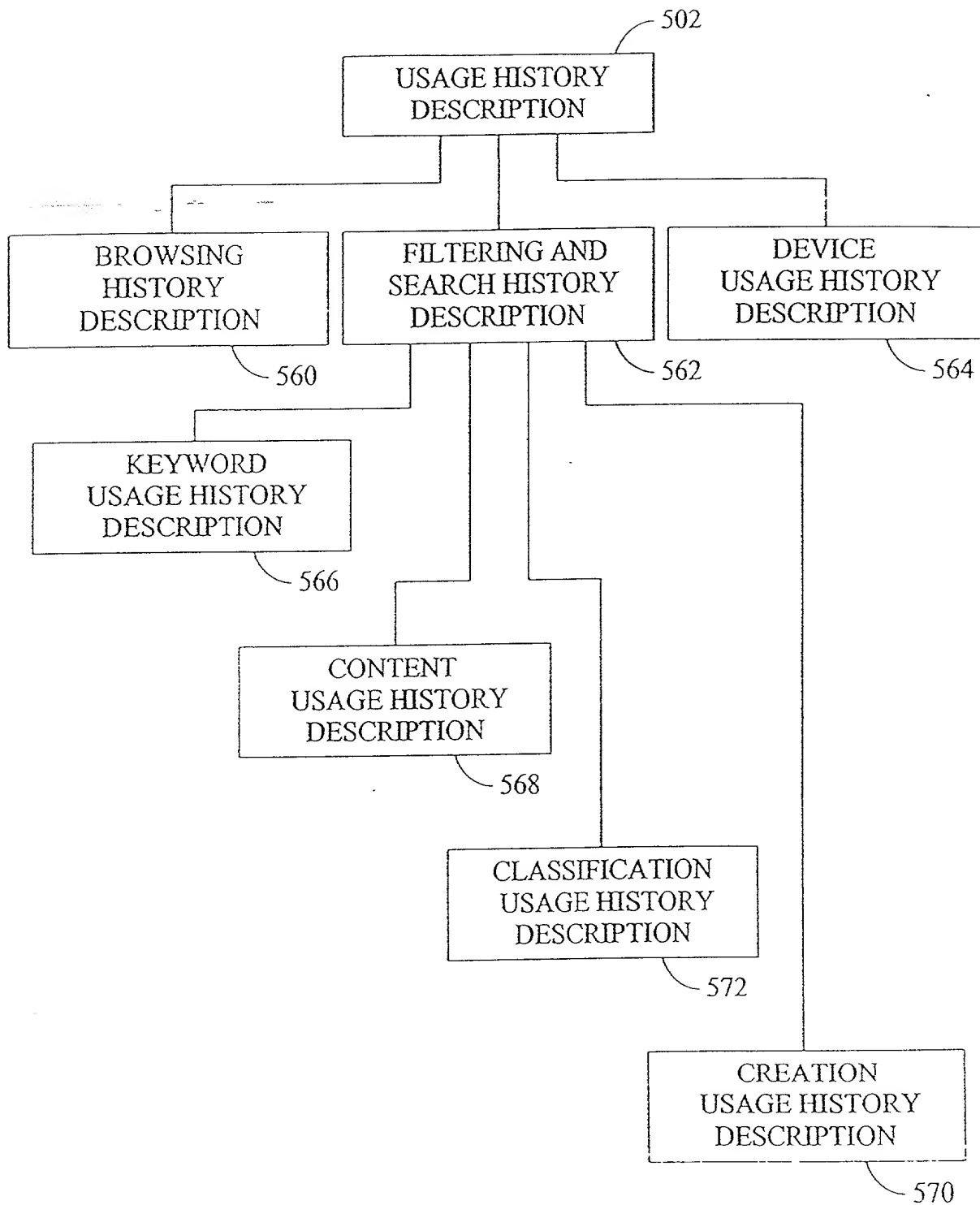


FIG. 27

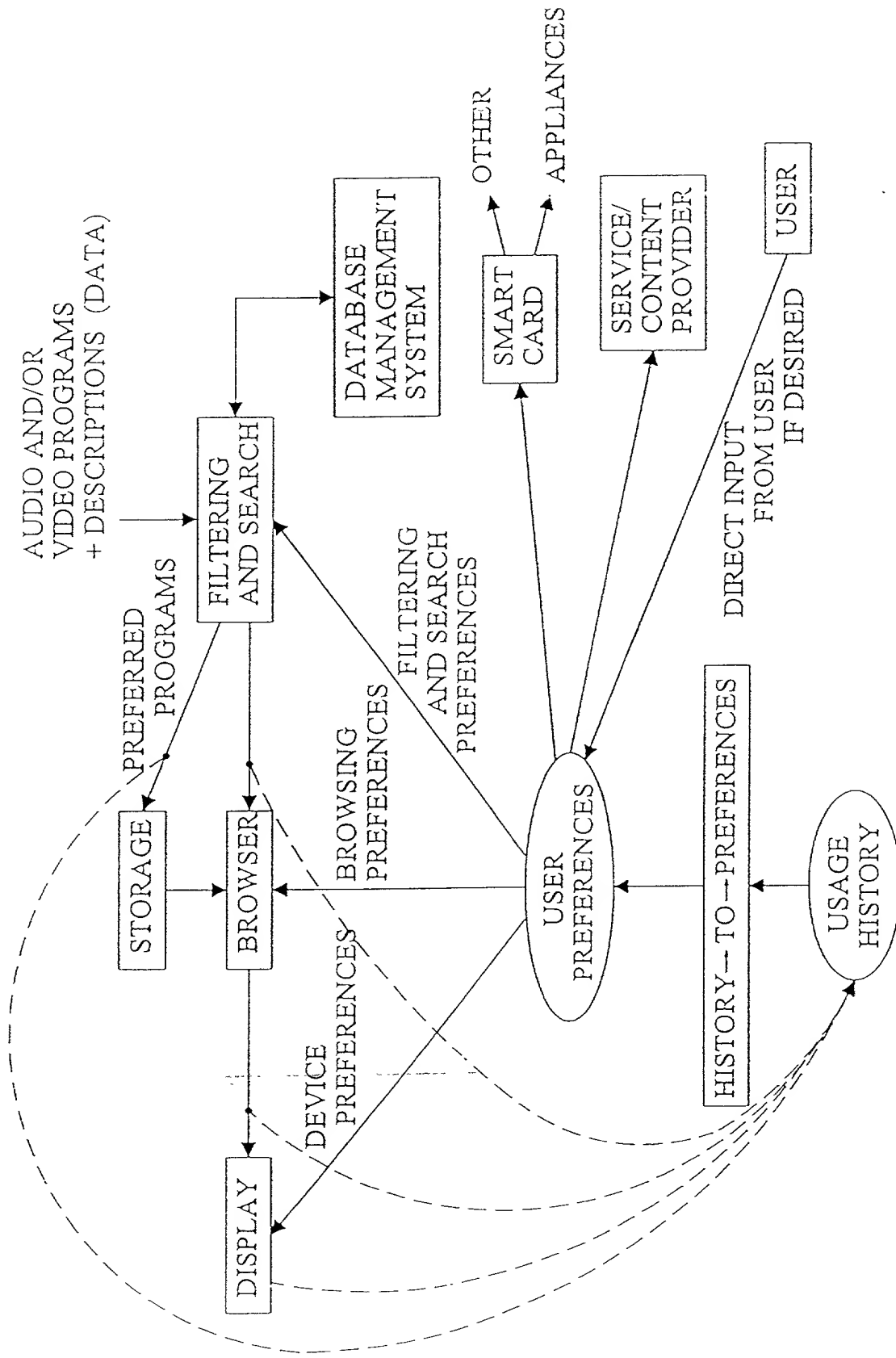


FIG. 28

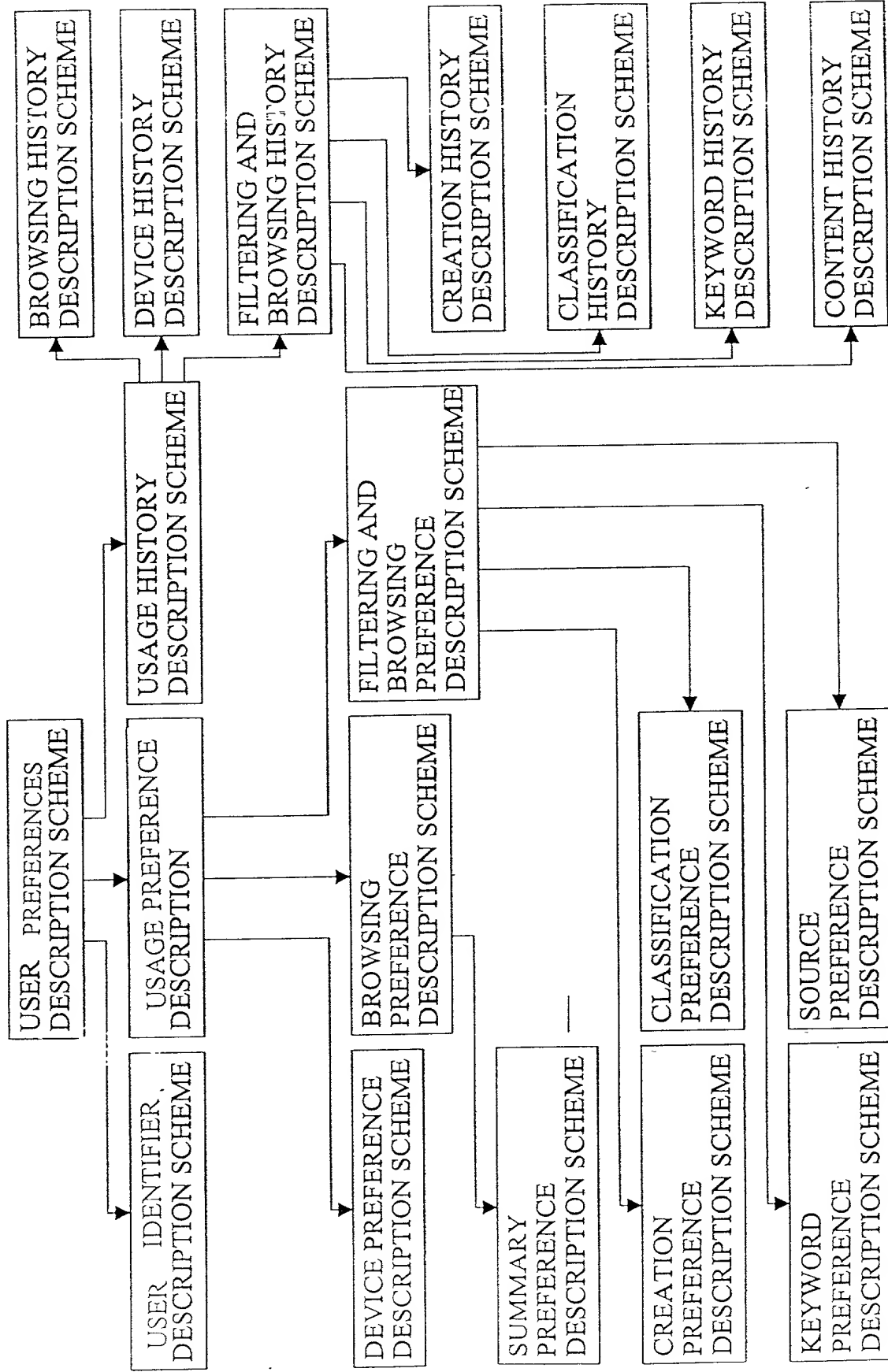


FIG. 29

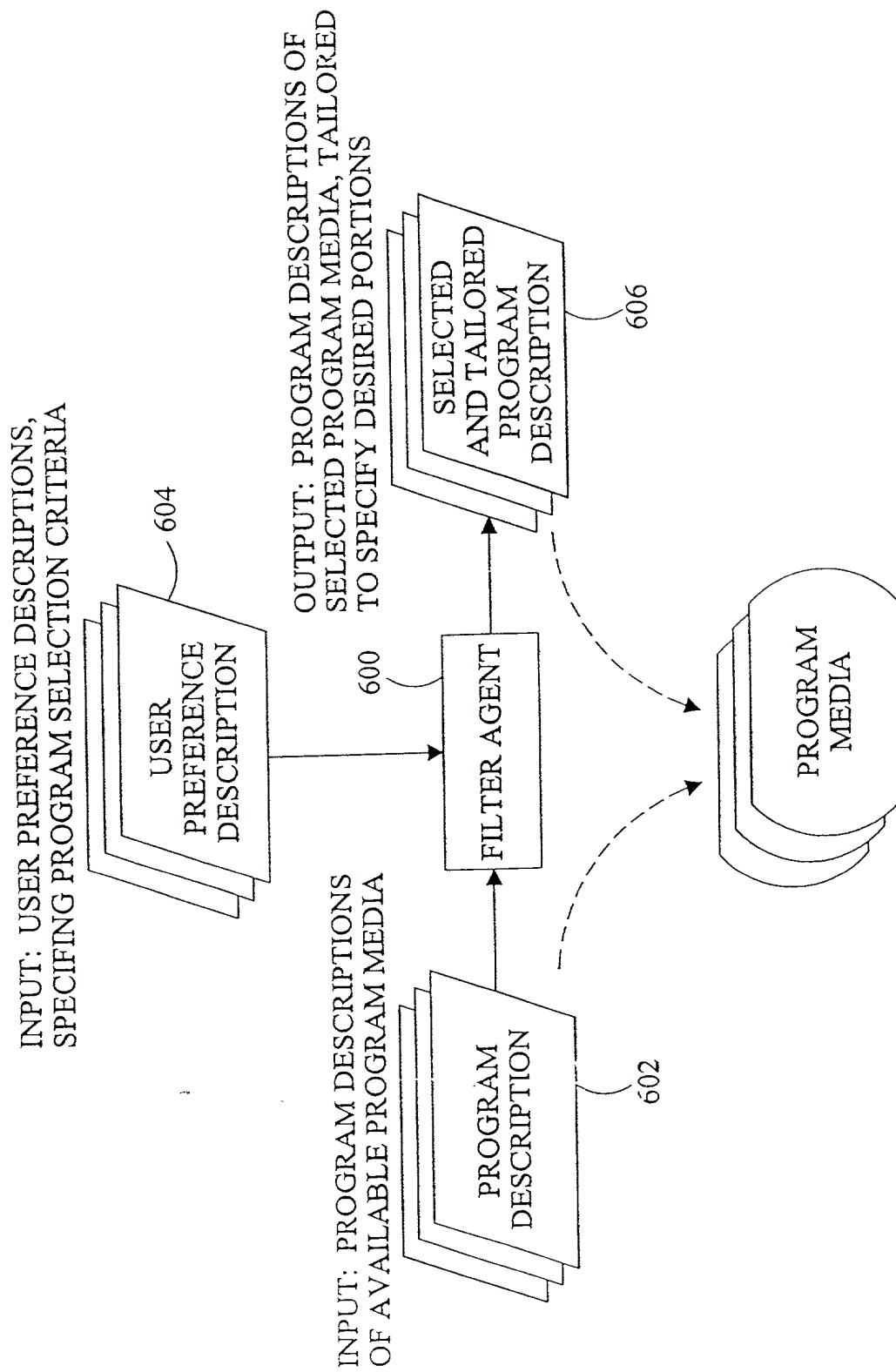
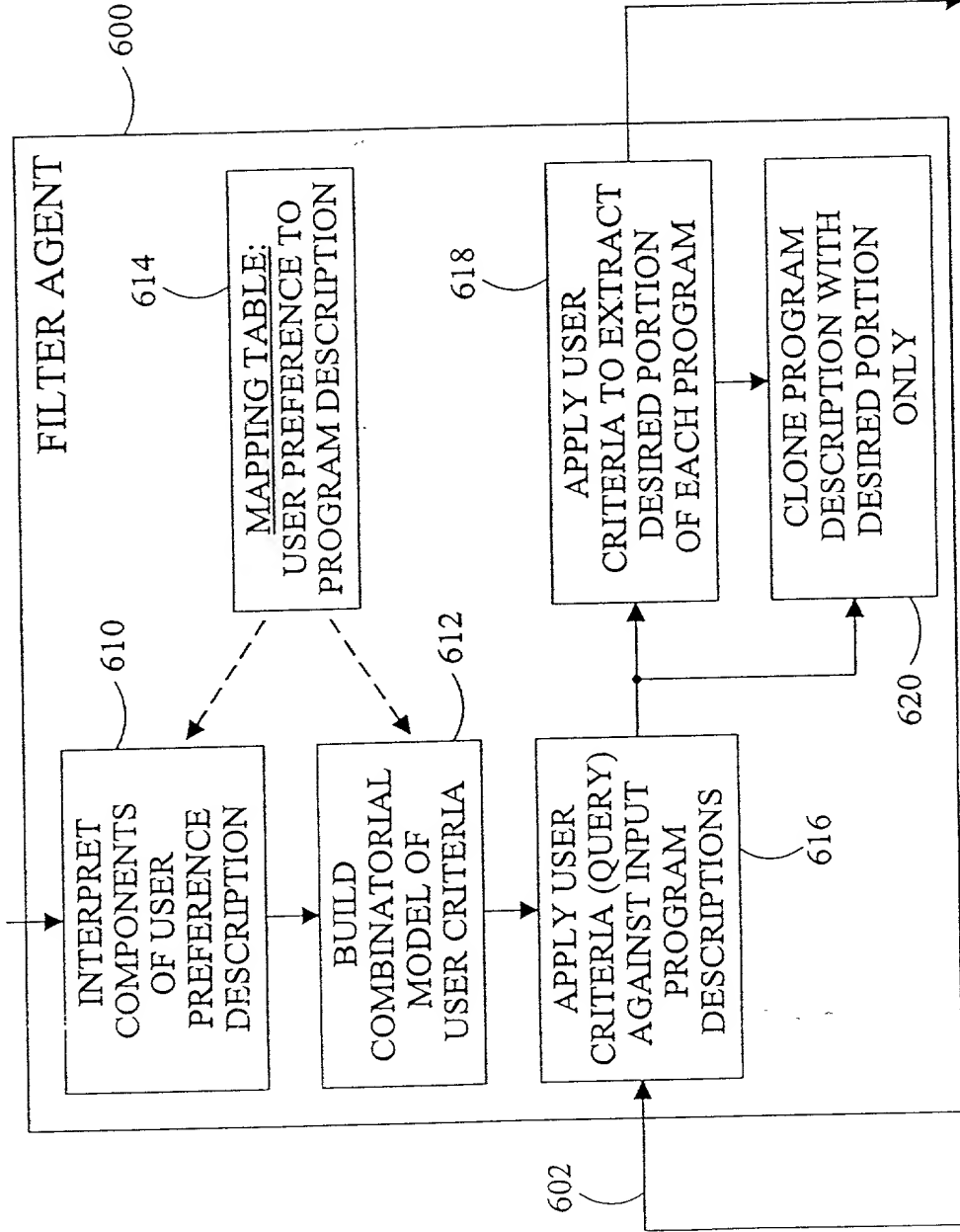


FIG. 30

FIG. 31

INPUT: USER PREFERENCE DESCRIPTIONS, — 604
SPECIFYING PROGRAM SELECTION CRITERIA



OUTPUT: PROGRAM DESCRIPTIONS OF
SELECTED PROGRAM MEDIA, TAILORED
TO SPECIFY DESIRED PORTIONS

INPUT: PROGRAM DESCRIPTIONS
OF AVAILABLE PROGRAM MEDIA

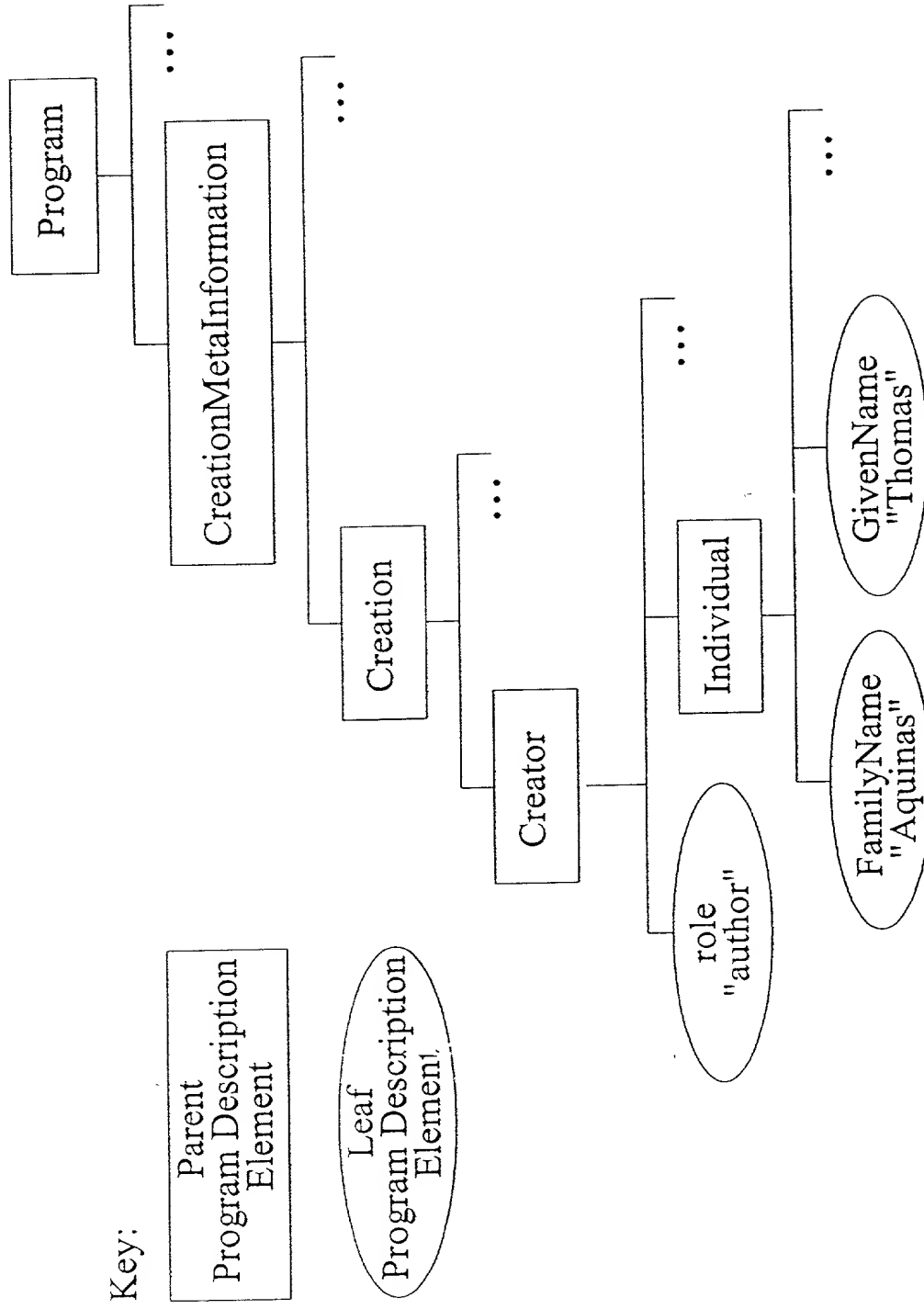


FIG. 32

Individual
Preference

Preference Name
Preference Value

FIG. 33

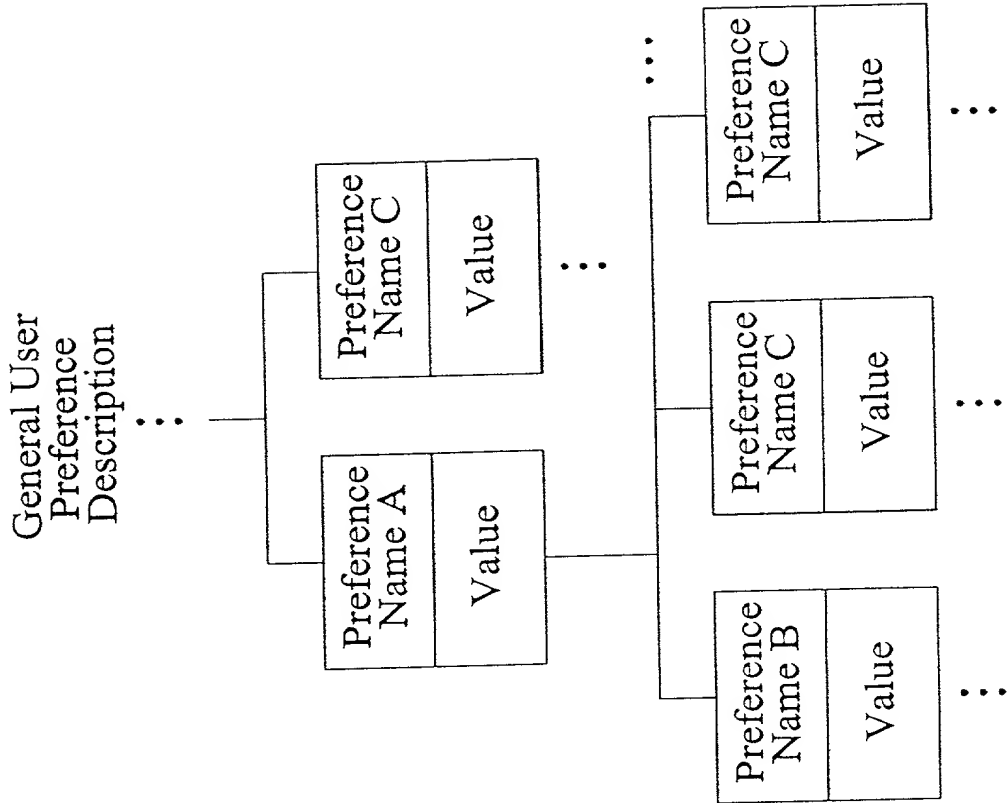


FIG. 34

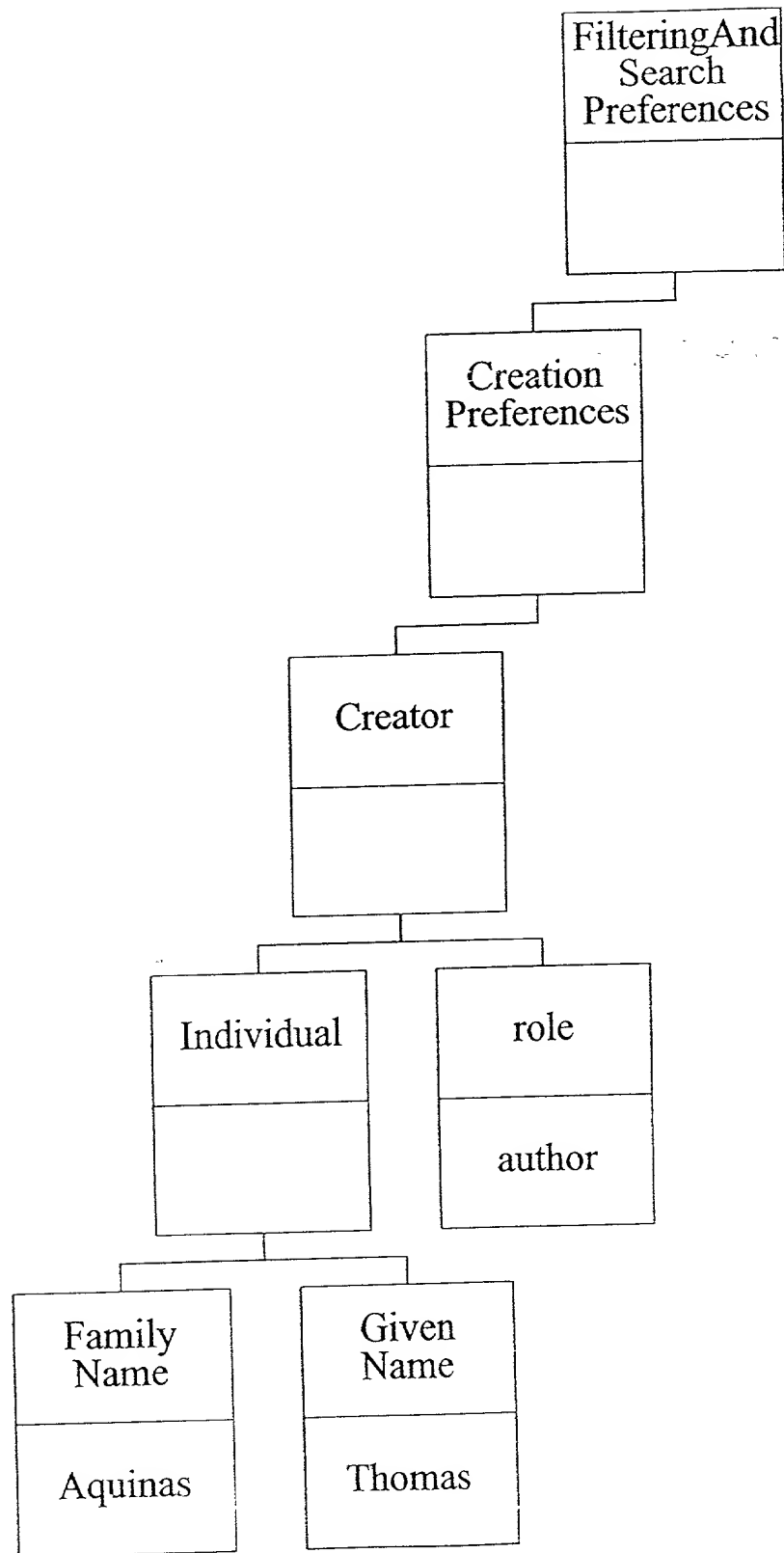


FIG. 35

<u>Name</u>		<u>Location</u>	<u>TestOp</u>		<u>InterOp</u>	<u>IntraOp</u>
FilteringAndSearch Preferences/ CreationPreferences		/Program /*CreationMetaInformation /*Creation	match-case-insens	AND	AND	AND
Creator/role		//*Creator/role	NULL	CAND	OR	OR
Creator/Individual/ FamilyName		//*Creator/Individual /FamilyName	substring-case-insens	CAND	OR	OR
Creator/Individual/ GivenName		//*Creator/Individual /*GivenName	substring-case-insens	CAND	OR	OR

FIG. 36

Test Operator	Description
substring-case-insensitive	Test that the preference value string [is a substring of] / [matches] the Program Description element value, [with] / [without] being case sensitive.
substring-case-sensitive	
string-match-case-insensitive	Test that the Program Description element value converted to a number is [$<$, $<=$, $>$, $>=$, $=$, $>$, $>=$, $<=$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$, $>=$, $<=$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
string-match-case-sensitive	
value-less-than	Test that the quantity of Program Description elements is [$<$, $<$, $>$, $>$, $=$, $>$, $<$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
value-less-than-or-equal	
value-greater-than	Test that the quantity of Program Description elements is [$<$, $<$, $>$, $>$, $=$, $>$, $<$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
value-greater-than-or-equal	
value-equal	Test that the quantity of Program Description elements is [$<$, $<$, $>$, $>$, $=$, $>$, $<$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
value-greater-than-less-than	
value-greater-than-equal-less-than-equal	Test that the quantity of Program Description elements is [$<$, $<$, $>$, $>$, $=$, $>$, $<$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
value-approximately	
count-less-than	Test that the quantity of Program Description elements is [$<$, $<$, $>$, $>$, $=$, $>$, $<$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
count-greater-than	
count-equal	Test that the quantity of Program Description elements is [$<$, $<$, $>$, $>$, $=$, $>$, $<$, $<$] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
count-greater-than-less-than	
count-approximately	

FIG. 37

Combinatorial Operator	Description
AND	The result of this Individual Preference test is boolean ANDed with others. If all the results in this combination are non-zero, the combined result is one, otherwise zero.
OR	The result of this Individual Preference test is boolean ORed with others. If any of the results in this combination are non-zero, the combined result is one, otherwise zero.
CAND	The Individual Preferences in this combination are evaluated form a Constrained common node. If all the results in this combination are non-zero, the combined result is one, otherwise zero.
MAX	The result of this Individual Preference test is combined arithmetically in a Maximum function with others. The combined result is the largest of all the results in this combination.
MIN	The result of this Individual Preference test is combined arithmetically in a Minimum function with others. The combined result is the smallest of all the results in this combination.
PROD	The result of this Individual Preference test is combined arithmetically in a Product function with others. The combined result is the product of all the results in this combination.
SAND	The result of this Individual Preference test is fuzzy ANDed with others. The combined result is the product of all the fuzzy-transformed (mapped to an S-curve profile) results.
SUM	The result of this Individual Preference test is combined arithmetically in a Sum function with others. The combined result is the sum of all the results in this combination. The result may be further bounded to a maximum result value.
FREQ	The result of this Individual Preference test is boolean counted with others, and the sum is normalized. The combined result is the count of all non-zero results, divided by a fixed maximum frequency number. The result may be further bounded to a maximum result value.
RATIO	The result of this Individual Preference test is boolean counted with others, and the sum is normalized by the number of Individual Preference tests in this combination. The combined result is the count of all non-zero results, divided by the count of all results.

FIG. 38

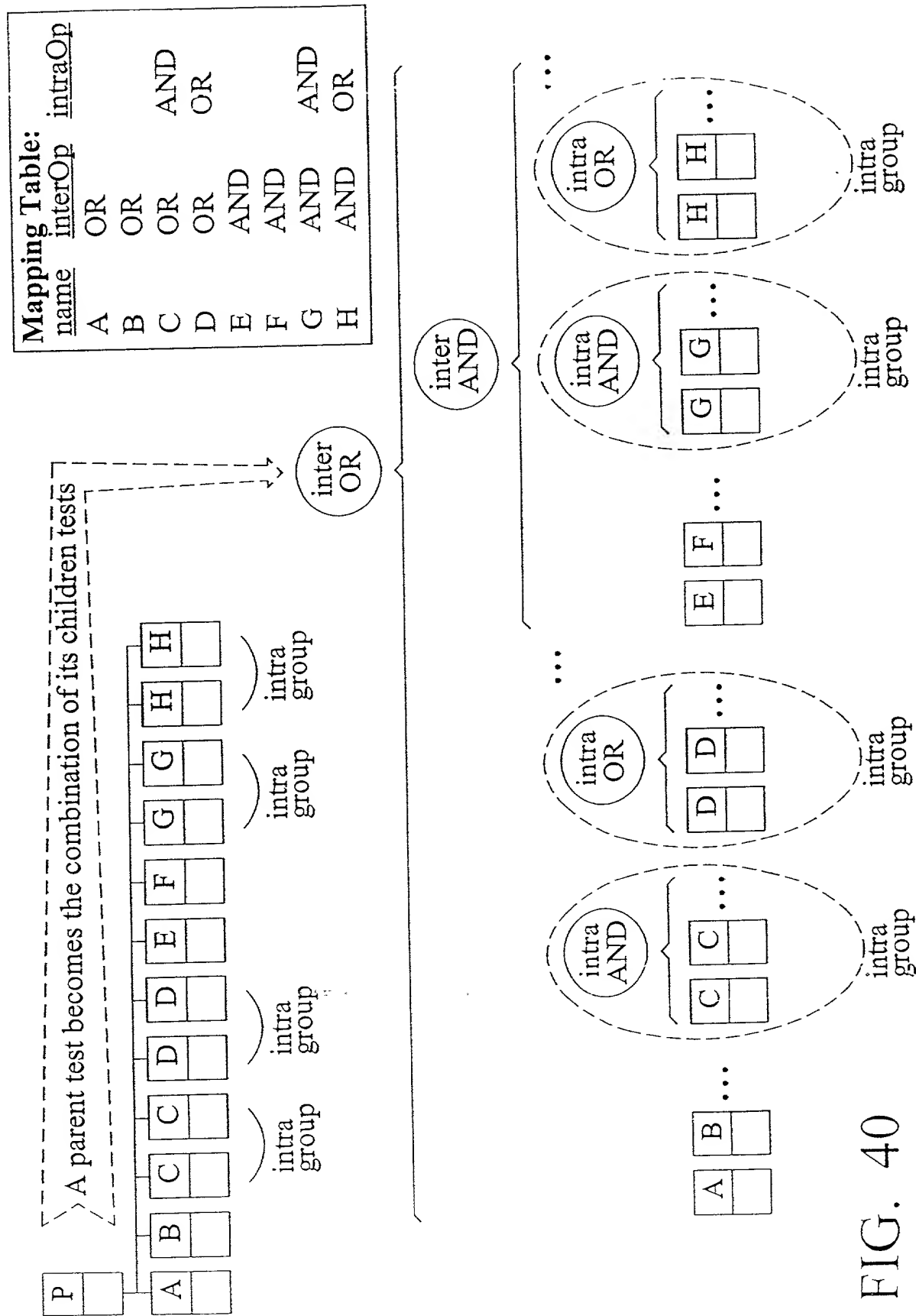


FIG. 40

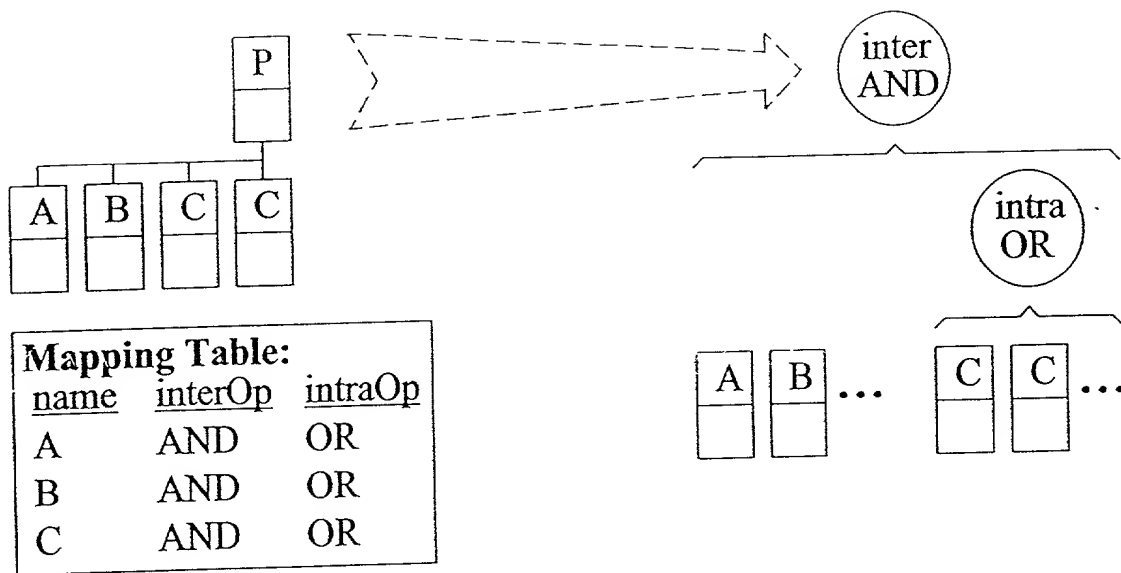


FIG. 41

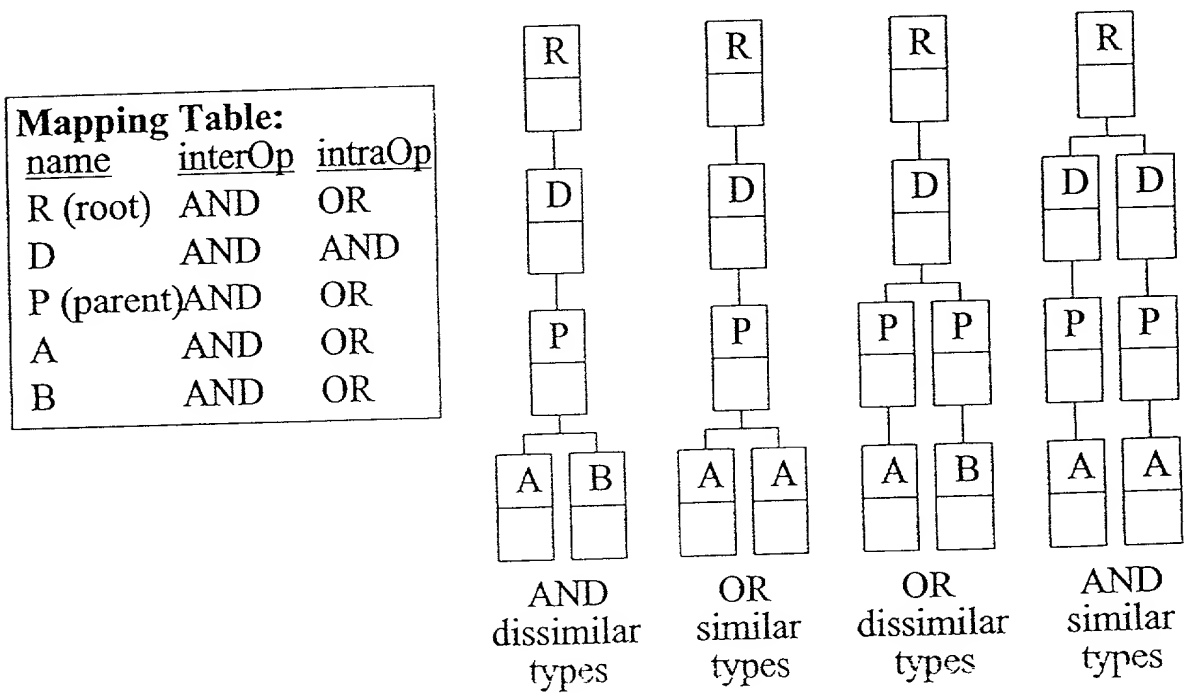
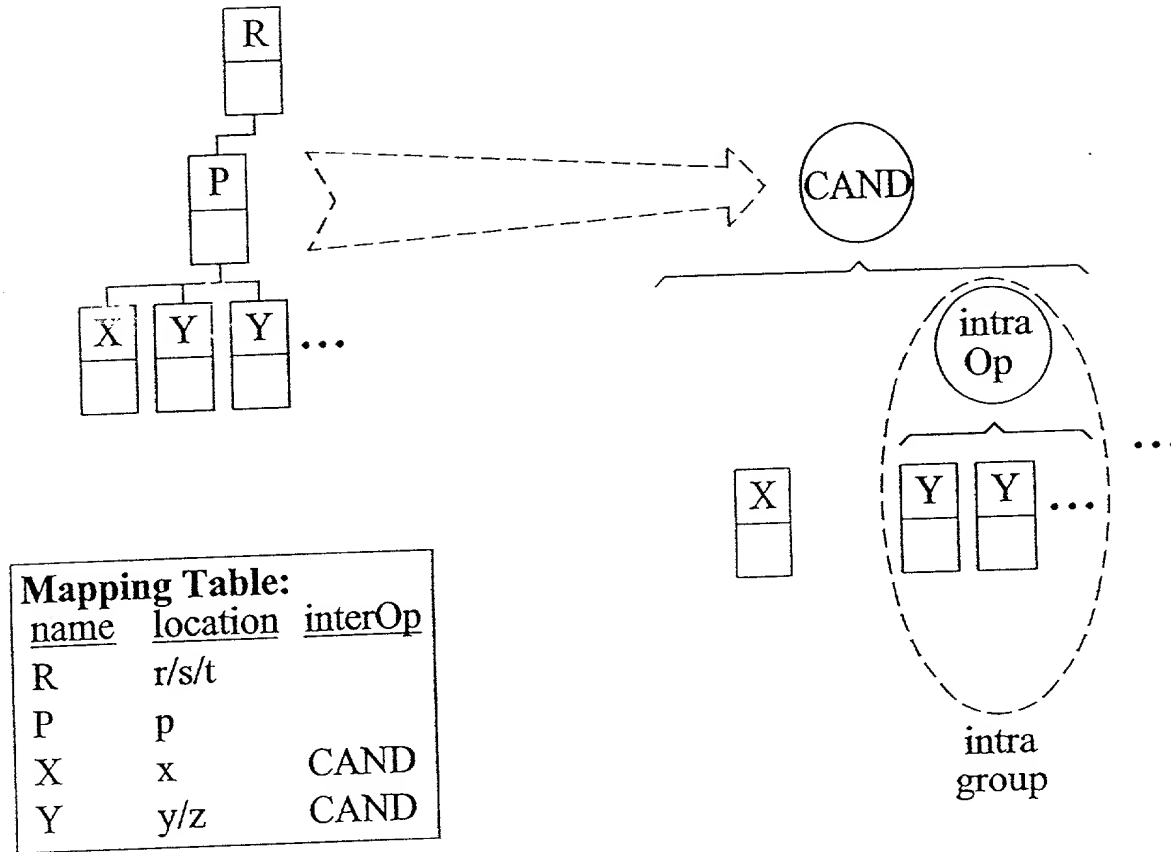


FIG. 42

User Preference Description



Program Description

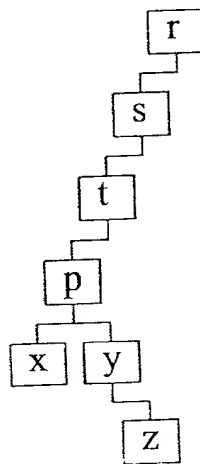


FIG. 43

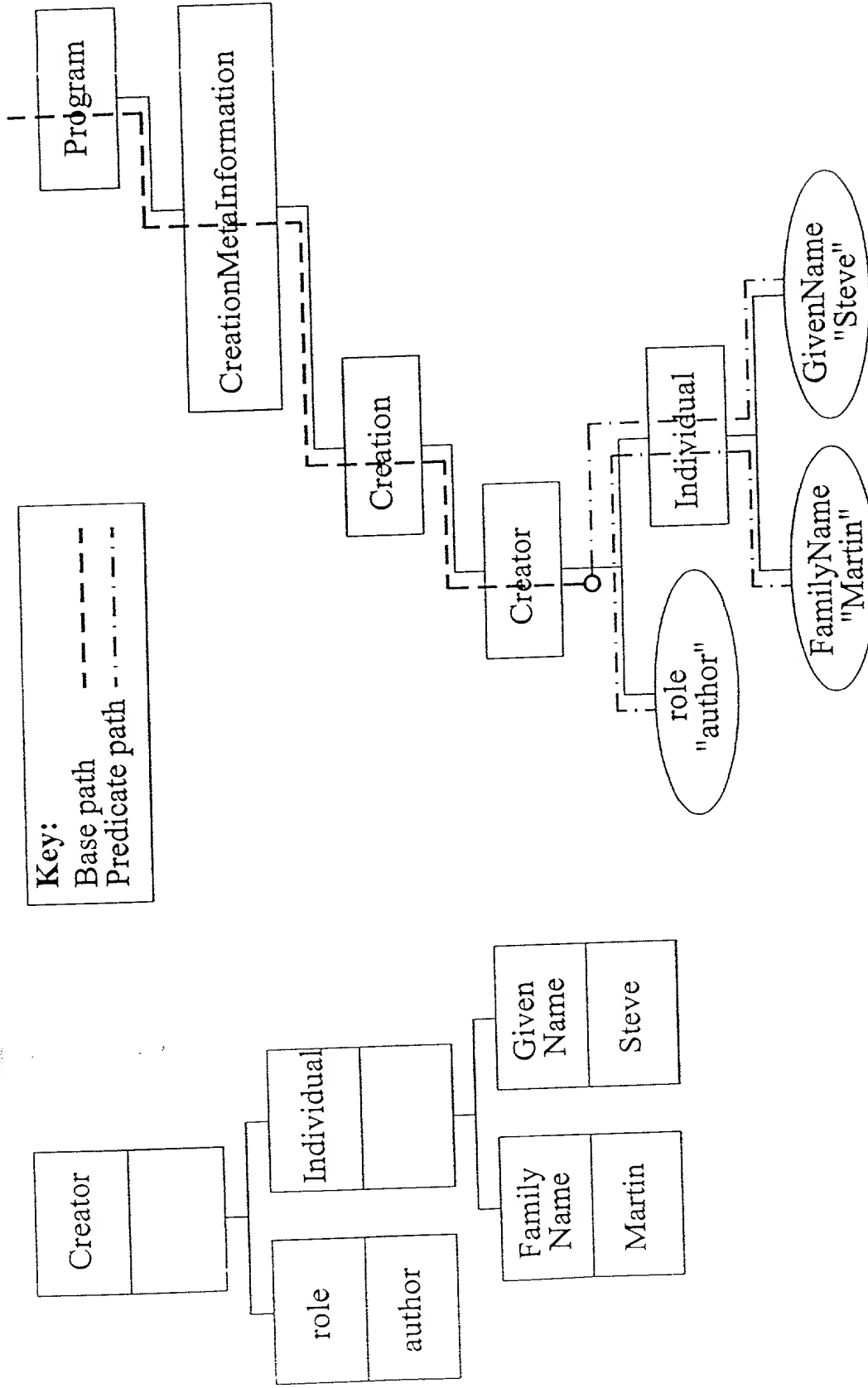


FIG. 44A

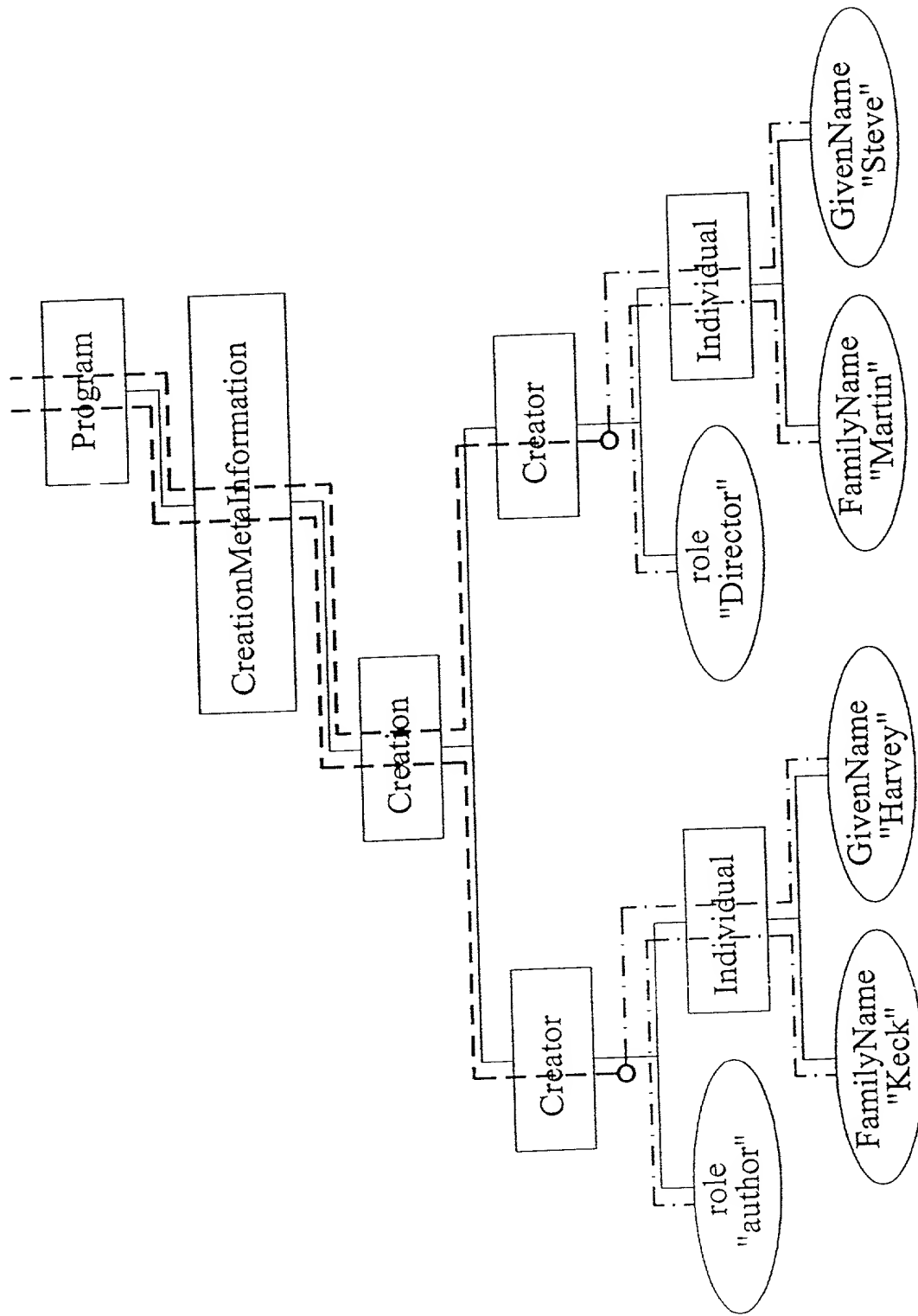


FIG. 44B

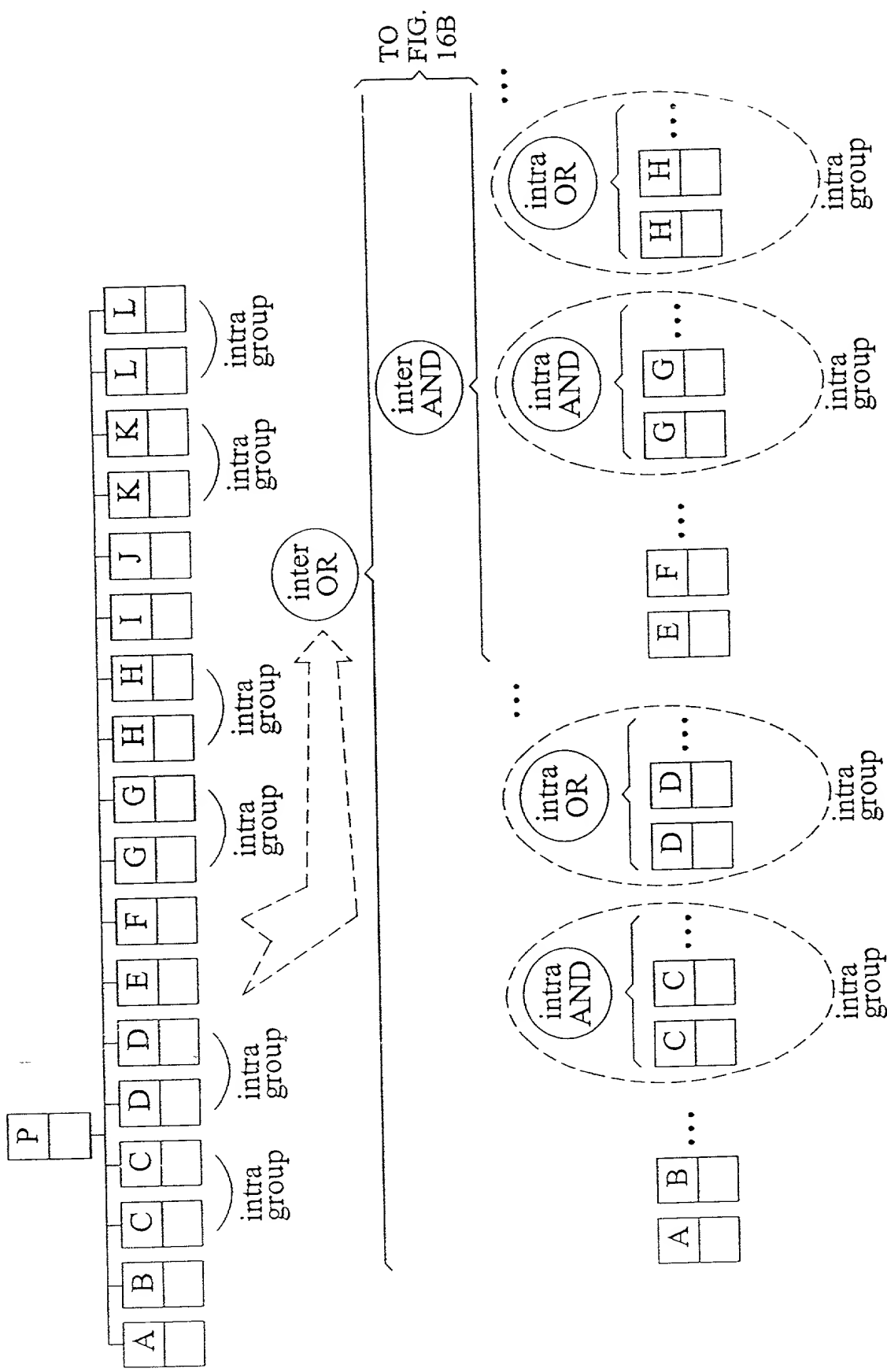
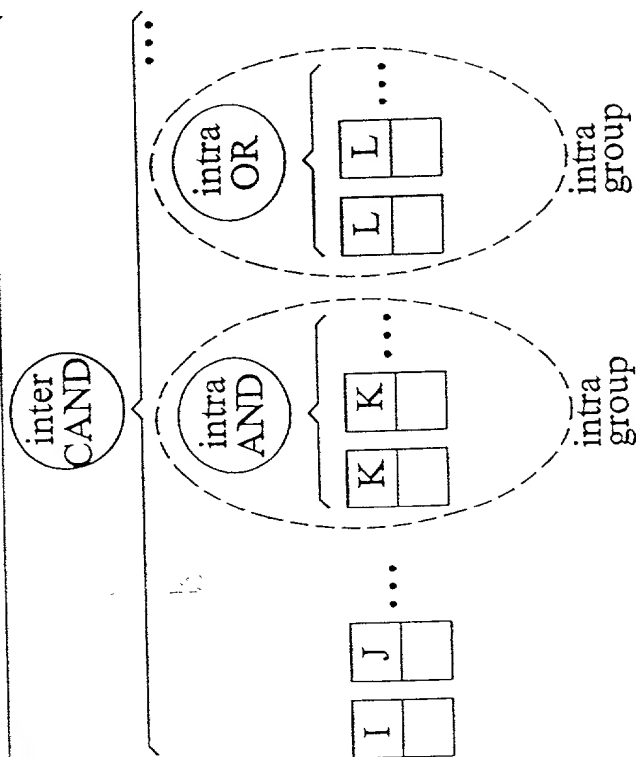


FIG. 45A

FROM
FIG.
16A



Mapping Table:		
<u>name</u>	<u>interOp</u>	<u>intraOp</u>
A	OR	
B	OR	
C	OR	AND
D	OR	OR
E	AND	
F	AND	
G	AND	AND
H	AND	OR
E	CAND	
F	CAND	
G	CAND	AND
H	CAND	OR

FIG. 45B

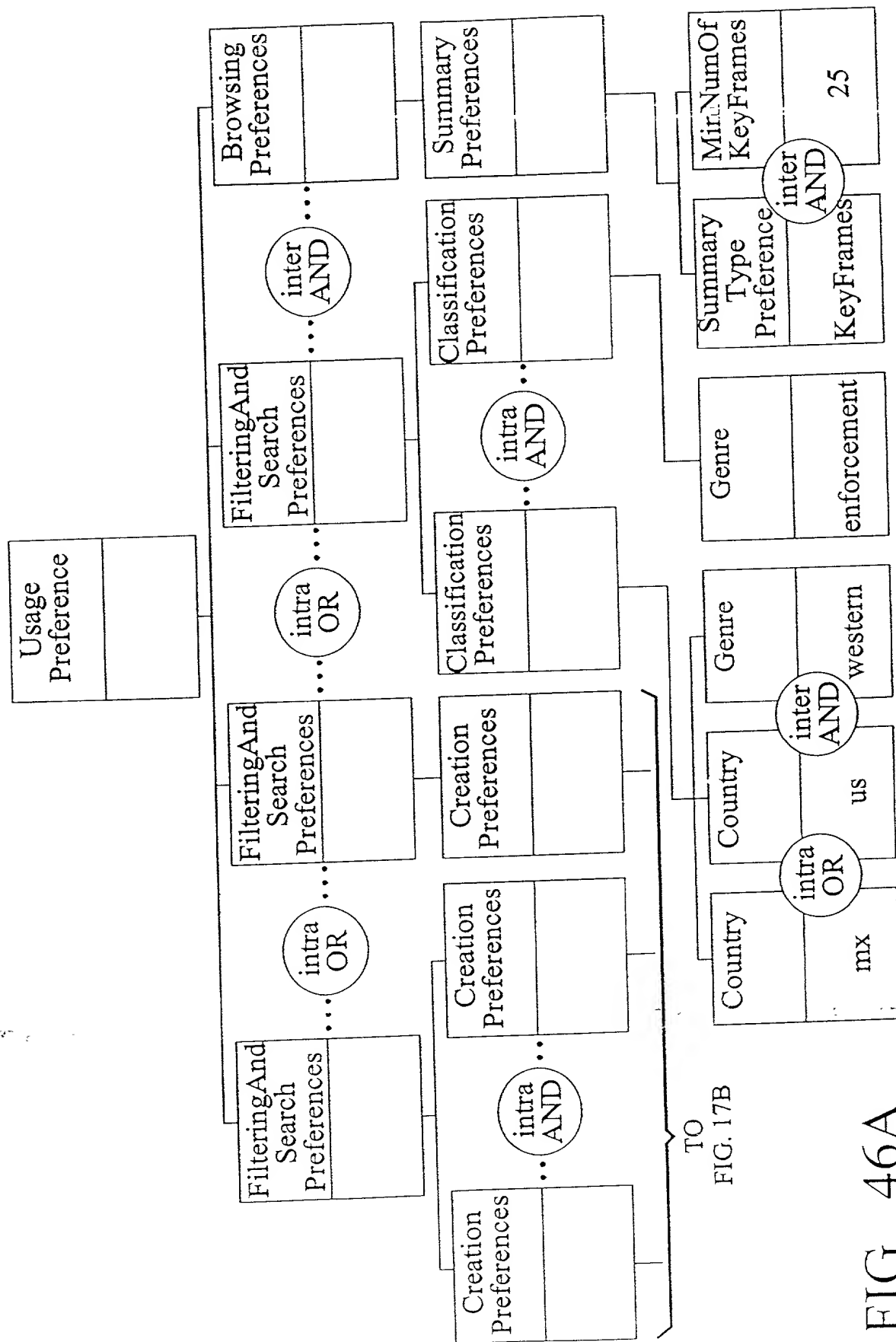


FIG. 46A

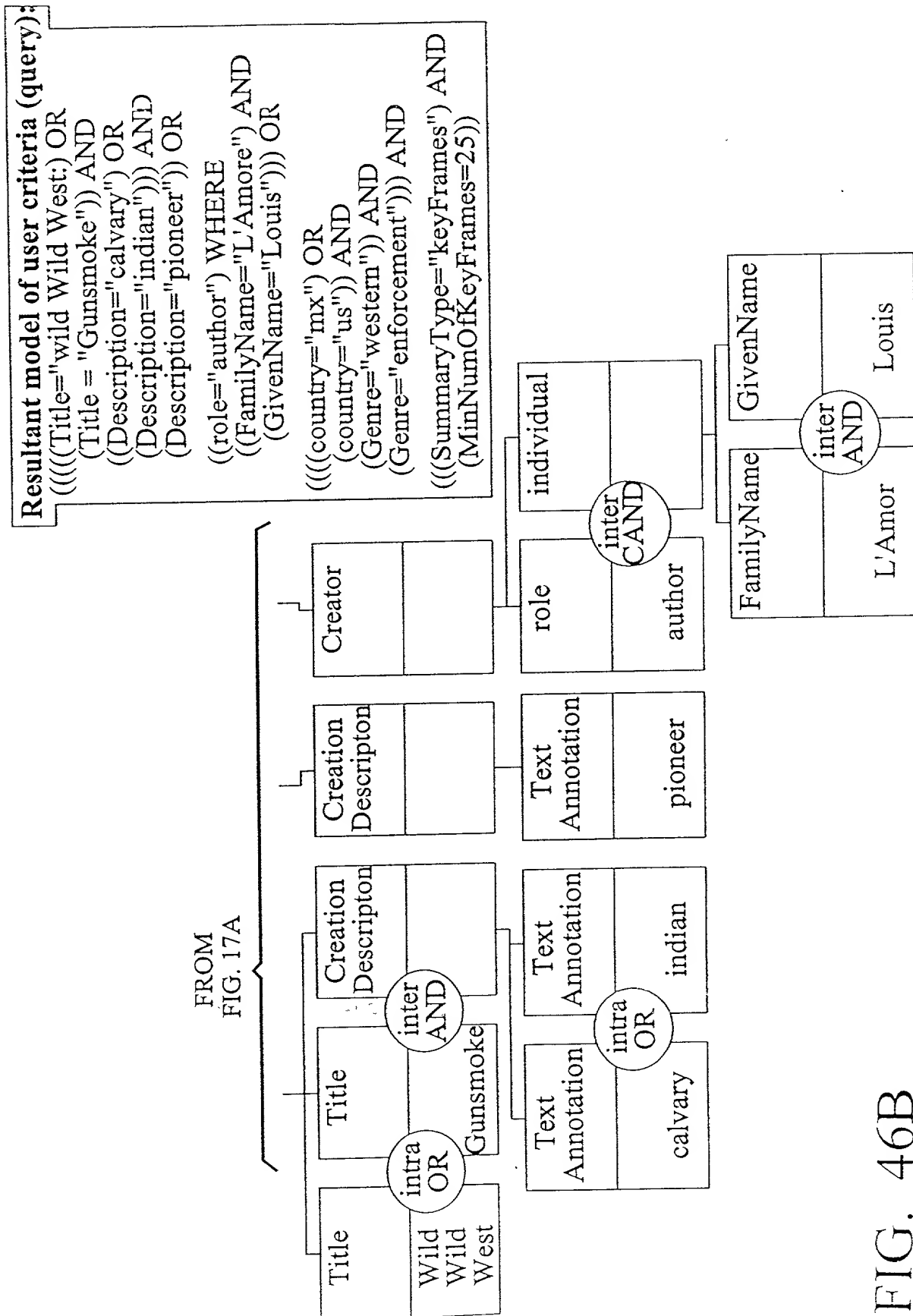


FIG. 46B

Name		Location					TestOp InterOp IntraOp									
Children of SourcePreferences																
PublicationType		/*Publication/PublicationType					STR		ISUB		AND		NA			
Children of SummaryPreferences																
SummaryTypePreference		/*HierarchicalSummary%summaryType					STR		ISUB		AND		OR			
SummaryName		/*HierarchicalSummary%name					STR		ISUB		AND		OR			
NumOfKeyFrames		/*HierarchicalSummary/*HighlightLevel%numberOfKeyFrames					VAL_EQ				AND		OR			
MinNumOfKeyframes		/*HierarchicalSummary/*HighlightLevel%numberOfKeyFrames					VAL_GTE				AND		OR			
MaxNumOfKeyframes		/*HierarchicalSummary/*HighlightLevel%numberOfKeyFrames					VAL_LTE				AND		OR			
SummaryDuration		/*HierarchicalSummary/*HighlightLevel/Duration					VAL_EQ				AND		OR			
MinSummaryDuration		/*HierarchicalSummary/*HighlightLevel/Duration					VAL_GTE				AND		OR			
MaxSummaryDuration		/*HierarchicalSummary/*HighlightLevel/Duration					VAL_LTE				AND		OR			
Level 3 Preferences																
Children of CreationDescription																
Who		/Who					STR		ISUB		AND		OR			
TextAnnotation		/TextAnnotation					STR		ISUB		AND		OR			
Children of Creator																
role		/role					STR		IEQ		CAND		NA			
Children of Creator, RealPerson																
Individual		/Individual					NA				AND		OR			
QuasiPerson		/QuasiPerson					NA				AND		OR			
Children of CreationLocation																

FIG. 47B

PlaceName	/PlaceName	STR	ISUB	AND	OR
PlaceRole	/PlaceRole	STR	ISUB	AND	NA
Planet	/Planet	STR	ISUB	AND	NA
GPSCoordinates	/GPSCoordinates	STR	ISUB	AND	NA
Region	/Region	STR	ISUB	AND	NA
PostingIdentifier	/PostingIdentifier	STR	ISUB	AND	NA
AdministrativeUnit	/AdministrativeUnit	STR	ISUB	AND	NA
PostalAddress	/PostalAddress	STR	ISUB	AND	NA
InternalCoordinates	/InternalCoordinates	STR	ISUB	AND	NA
<i>Children of CreationMaterial</i>					
device instrument	/device instrument	STR	ISUB	AND	NA
device setting	/device setting	STR	ISUB	AND	NA
Level 4 Preferences					
<i>Children of Individual, ContactPerson</i>					
FamilyName	/FamilyName	STR	ISUB	CAND	NA
GivenName	/*GivenName	STR	ISUB	CAND	OR
SecondFamilyName	/*SecondFamilyName	STR	ISUB	CAND	OR
Initial	/*Initial	STR	ISUB	CAND	OR
ProfessionalName	/*ProfessionalName	STR	ISUB	CAND	OR
<i>Children of QuasiPerson</i>					
CharacterName	/*CharacterName	STR	ISUB	CAND	OR
RealPerson	/*RealPerson	NA		CAND	OR
<i>Children of Organization</i>					
OrganizationName	/OrganizationName	STR	ISUB	CAND	NA
ContactPerson	/*ContactPerson	NA		CAND	OR
Address	/*Address	NA		CAND	OR
Preference Types					
FilteringAndSearchPreferenceType	/*FilteringAndSearchPreferenceType	NA		NA	OR
BrowsingPreferenceType	/*BrowsingPreferenceType	NA		NA	OR

FIG. 47C

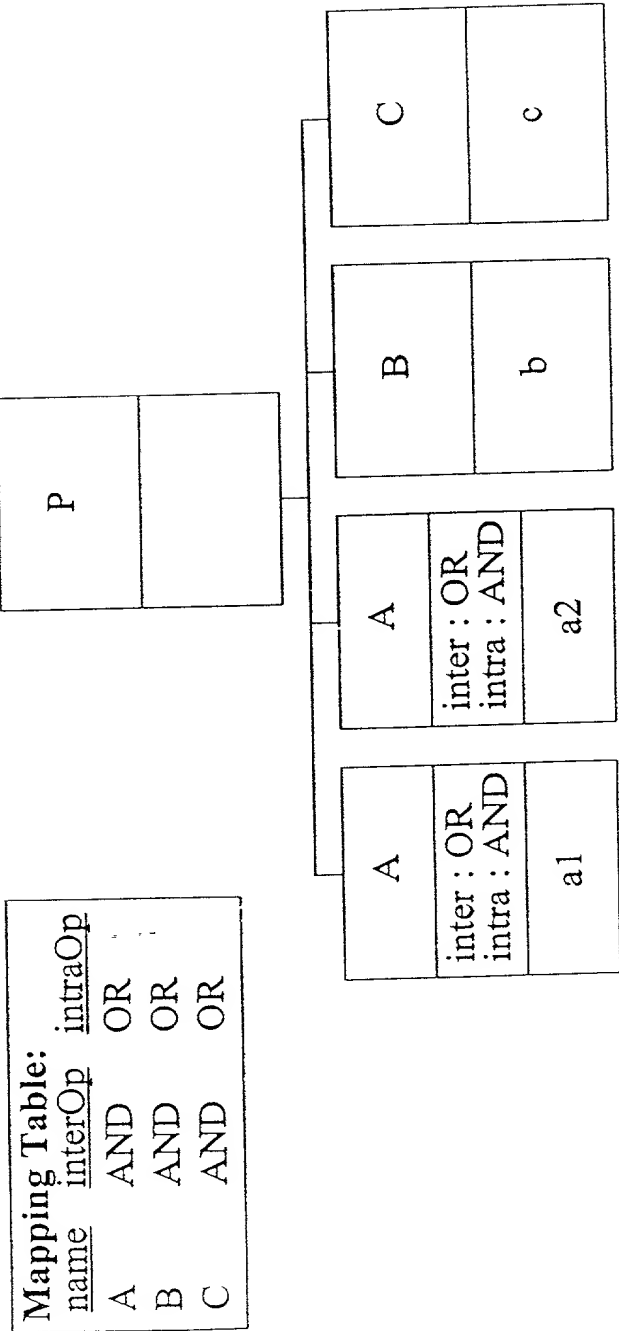


FIG. 48

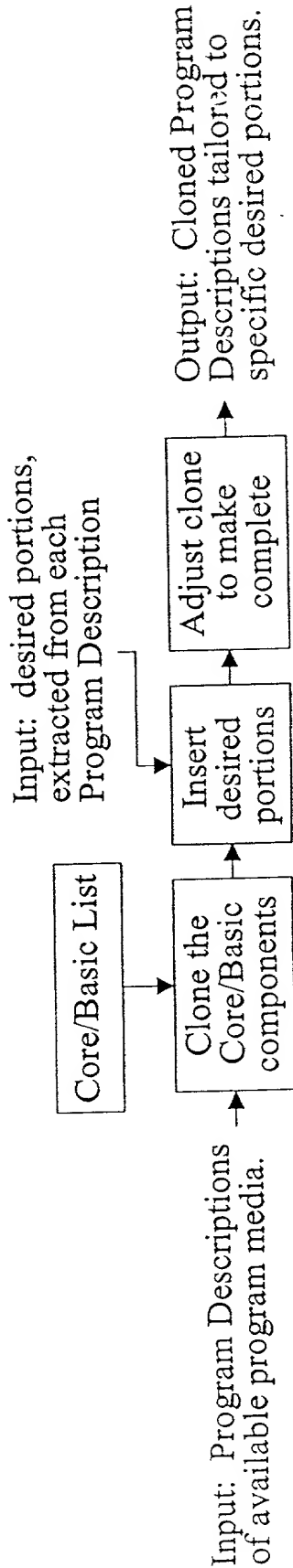


FIG. 49

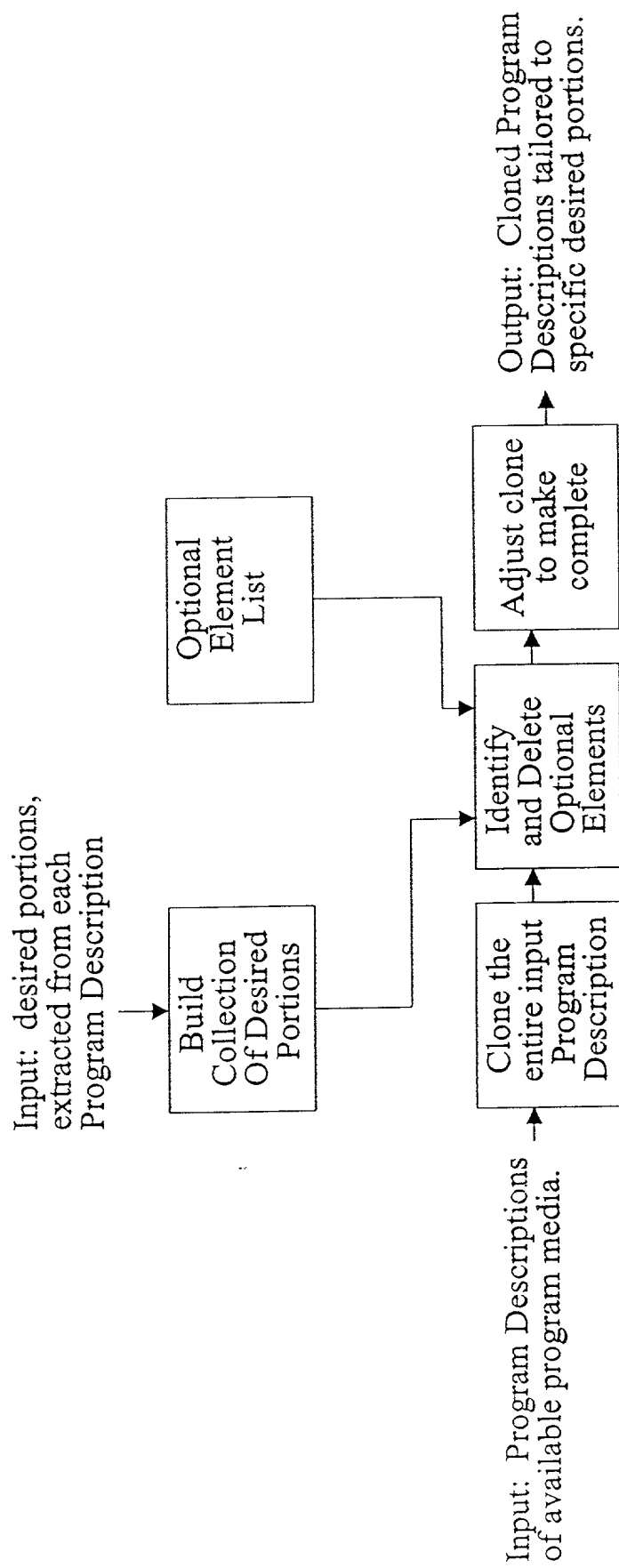


FIG. 50

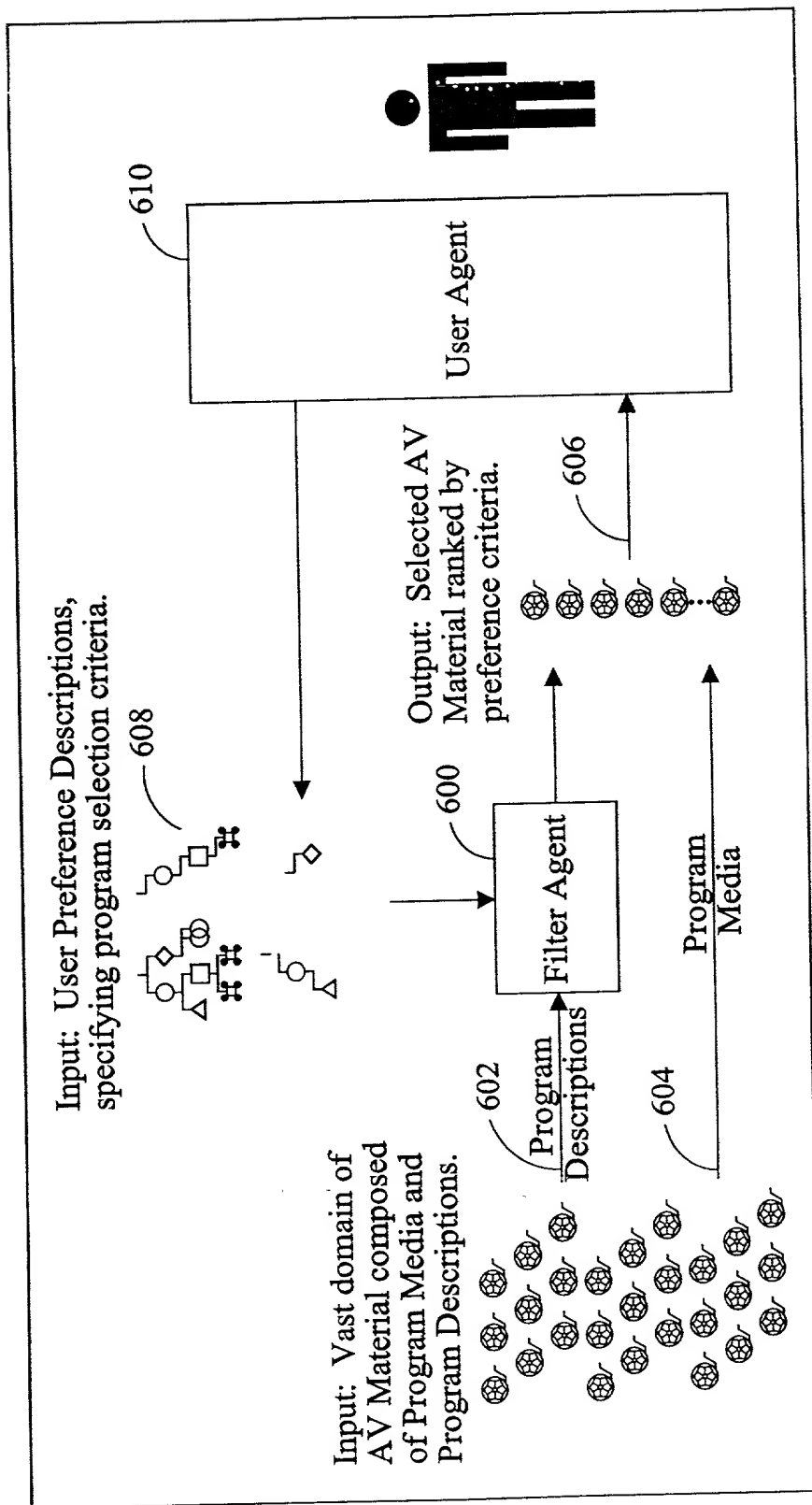


FIG. 51

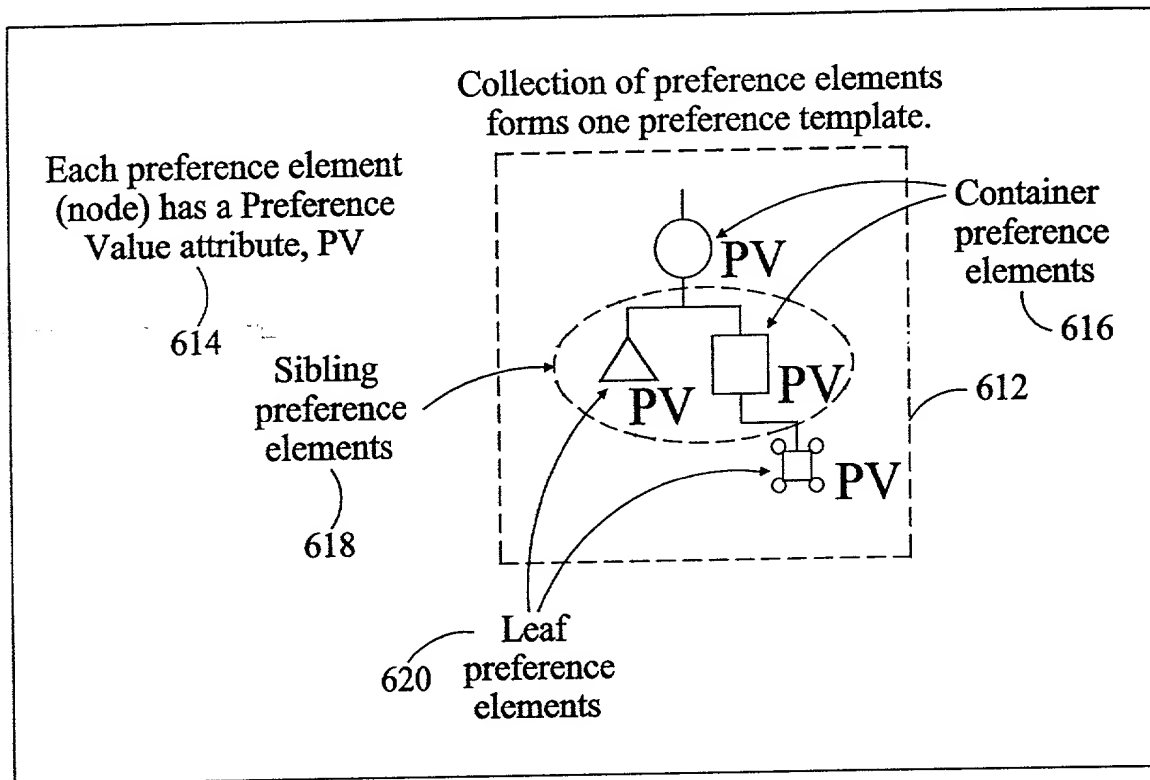


FIG. 52

Preference Values	
620	Nominal Value
622	Neutral Value
624	Maximum Value
626	Minimum Value
628	Other Value

FIG. 53

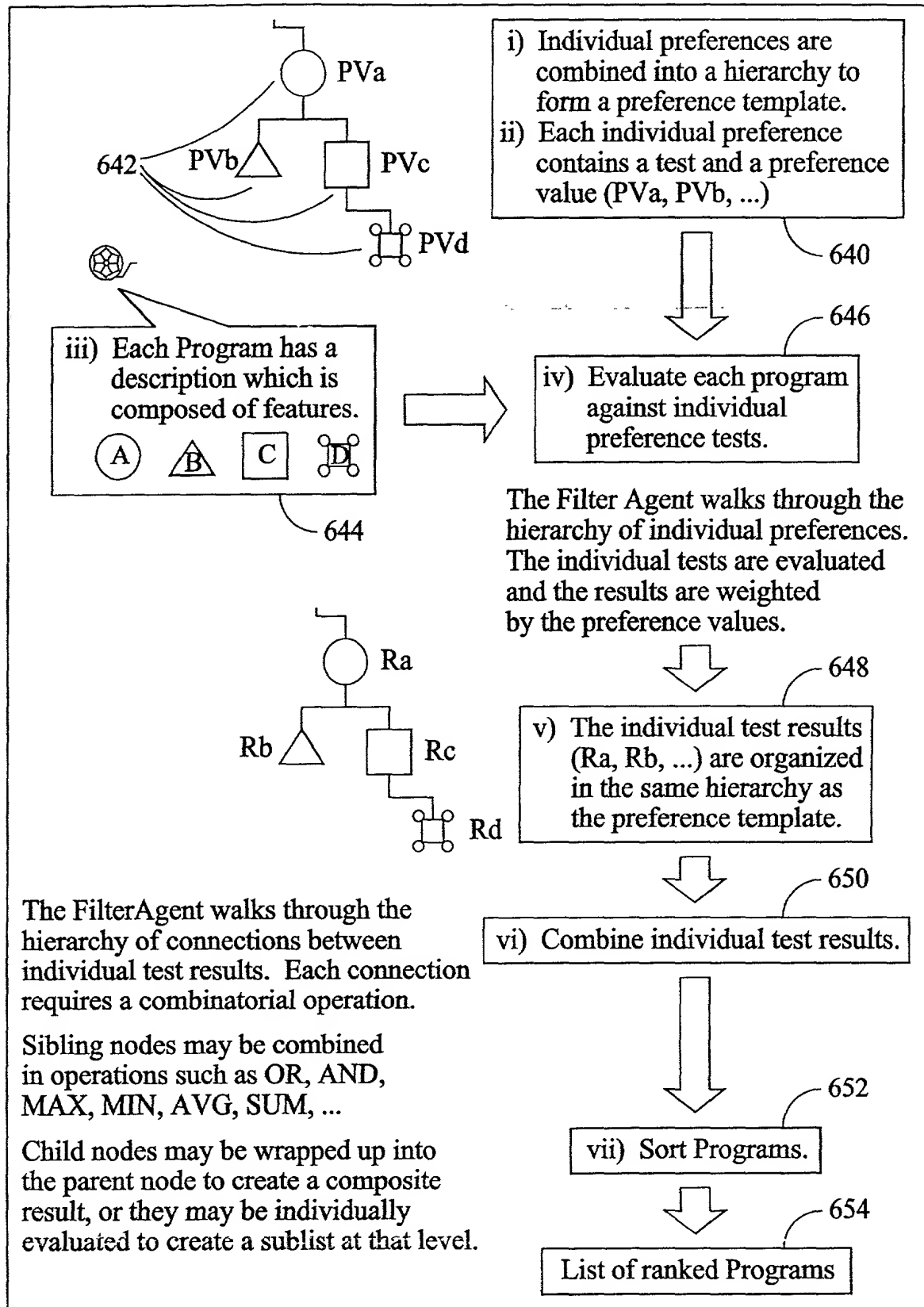


FIG. 54

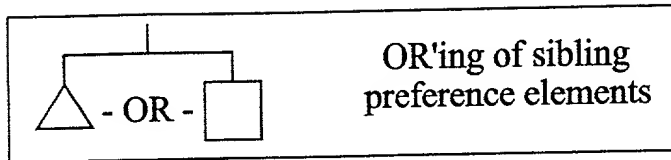


FIG. 55

Program		PVa = 1 OR PVb = 1		Score	Rank
J	A = B = 1	1	1	2	1
K	A = 1, B = 0	1	0	1	2

FIG. 56

Program		PVa = 1 OR PVb = 1		Score	Rank
J	A = 1, B = 0.01	1	0.01	1.01	1
K	A = 1, B = 0	1	0	1	2

FIG. 57

Program		PVa = 4 OR PVb = 1 OR PVc = 1			Score	Rank
J	A = 1, B = C = 0	4	0	0	4	1
K	A = 0, B = C = 1	0	1	1	2	2

FIG. 58

Program		PVa = 4 OR PVb = 1 OR PVc = 1			Score	Rank
J	A = 0.4, B = C = 0	1.6	0	0	1.6	3
K	A = 0.5, B = C = 0	2	0	0	2	2 tied
L	A = 0, B = C = 1	0	1	1	2	2 tied
M	A = 0.1, B = C = 1	0.4	1	1	2.4	1

FIG. 59

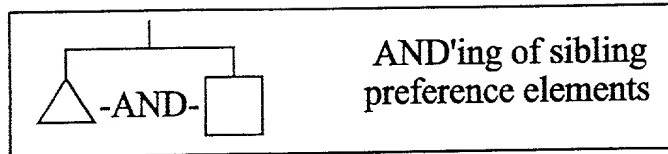


FIG. 60

Program		PVa = 1 AND PVb = 1		Score	Rank
J	A = B = 1	1	1	1	1
K	A = 1, B = 0.5	1	0.5	0.75	2

FIG. 61

Program		PVa = 1 AND PVb = 1		Score	Rank
J	A = B = 0.6	0.6	0.6	0.6	1
K	A = 1, B = 0.1	1	0.1	0.55	2
L	A = B = 0.5	0.5	0.5	0.5	3

FIG. 62

Program		PVa = 1 AND PVb = 1		Score	Rank
J	A = 1, B = 0.9	1	0.9	0.95	1
K	A = B = 0.9	0.9	0.9	0.9	2
L	A = 1, B = 0	1	0	0.5	3

FIG. 63

Program		PVa = 1 AND PVb = 1		Score	Rank
L	A = 1, B = 0	1	0	0.5	reject

FIG. 64

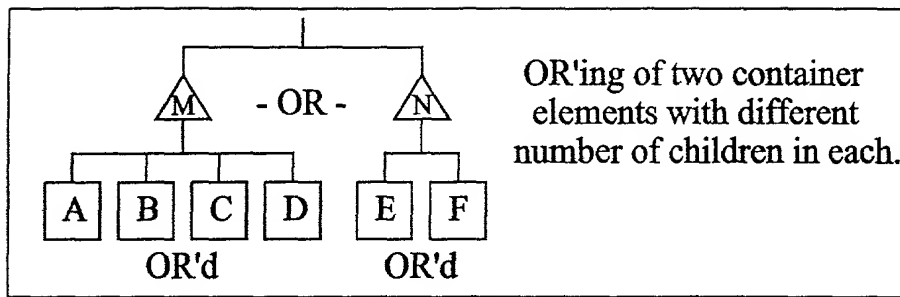


FIG. 65

Program		PV _x = 1 OR PV _y = 1				Score		Rank	
		PV _a =1 OR PV _c =1	PV _b =1 OR PV _d =1	PV _d =1 OR PV _e =1	PV _e =1				
J	A=B=C=1, D=E=F=0	1	1	1	0	0	0	3	1
K	A=B=C=D=0, E=F=1	0	0	0	0	1	1	2	2

FIG. 66

Program		PV _x = 1 OR PV _y = 1				Score		Rank	
		PV _a =1 OR PV _c =1	PV _b =1 OR PV _d =1	PV _d =2 OR PV _e =2	PV _e =2				
J	A=B=C=1, D=E=F=0	1	1	1	0	0	0	3	2
K	A=B=C=D=0, E=F=1	0	0	0	0	2	2	4	1

FIG. 67

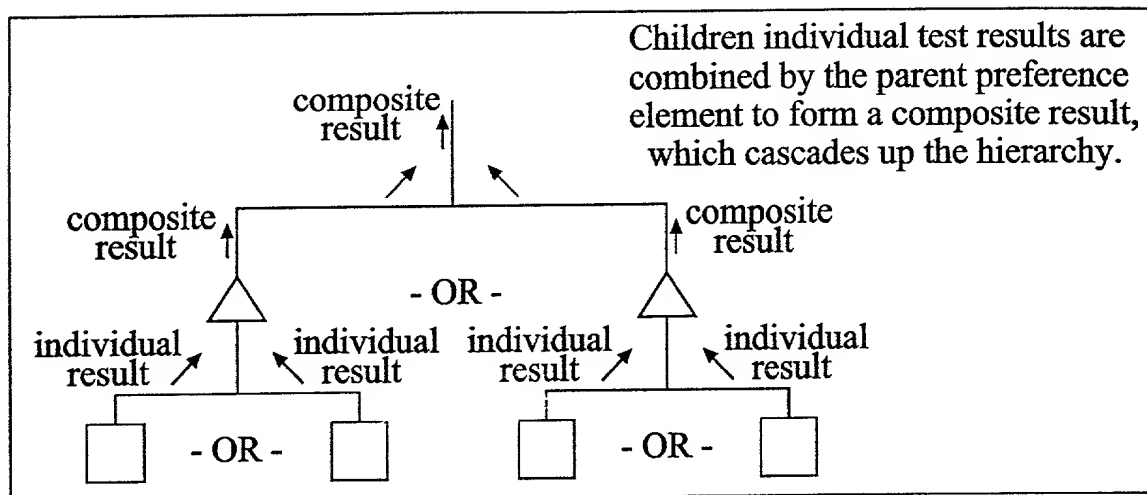


FIG. 68

Program		PV _x = 0.8		OR		PV _y = 1		Score	Rank
		PV _a =1	OR	PV _b =1	PV _c =1	OR	PV _d =0.5		
J	A=1, B=C=D=0	0.8		0	0		0	0.8	1
K	A=B=C=0, D=1	0		0	0		0.5	0.5	2

FIG. 69

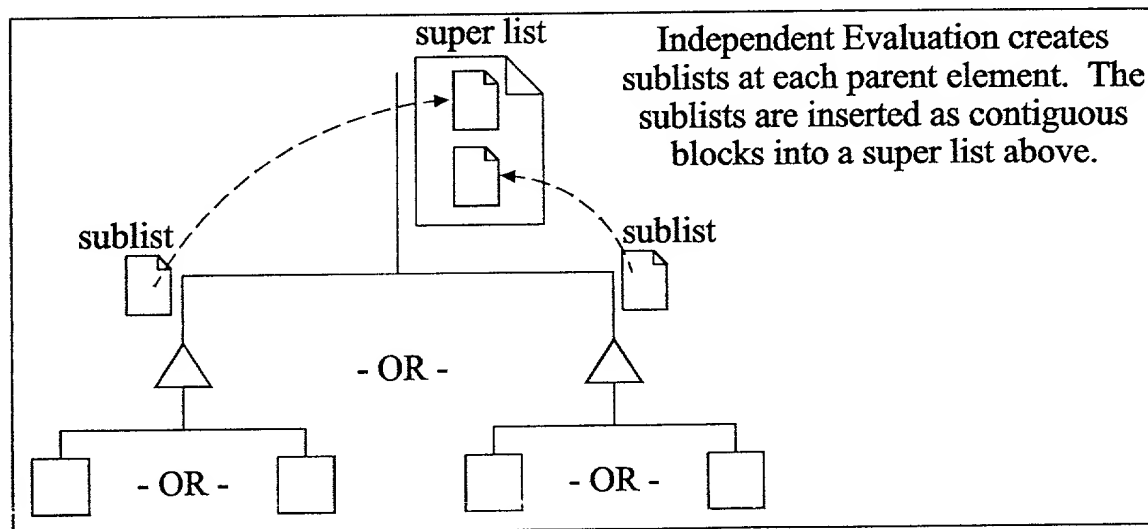


FIG. 70

Program		PVa = 1 OR PVb = 1		Score	Rank
J	A = 1, B=C=D=0	1	0	1	1
K	A=B=C=0, D = 1	0	0	0	reject

FIG. 71

Program		PVc=1 OR PVd=0.5		Score	Rank
J	A = 1, B=C=D=0	0	0	0	reject
K	A=B=C=0, D = 1	0	0.5	0.5	1

FIG. 72

Merging of SubLists into SuperList:

SubLists sorted by Preference Value	Programs in SubList	Rank
SubList Y with PVy = 1	K	1
SubList X with PVx = 0.8	J	2

FIG. 73

Program		PV _x = 2 AND PV _y = 1				Score	Rank
		PV _a =1 OR PV _b =1		PV _c =1 OR PV _d =1			
J	A=0.9, B=C=D=1	0.9	1	1	1	2.9	2
K	A=B=C=1, D=0.9	1	1	1	0.9	2.95	1

FIG. 74

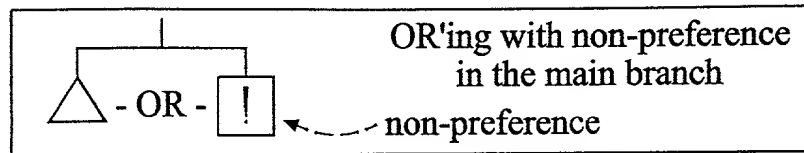


FIG. 75

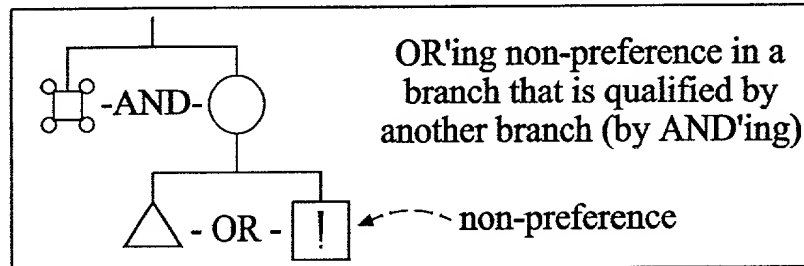


FIG. 76

Program		PVa = 1 OR PVb = -1		Score	Rank
J	A = B = 1	1	0	1	2
K	A = 1, B = 0	1	1	2	1

FIG. 77

Program		PVa = 1 AND PVb = -1		Score	Rank
J	A = 1, B = 0.01	1	-0.01	0.495	2
K	A = 1, B = 0	1	0	0.5	1

FIG. 78

Program		PVa=1 AND PVb=-100		Score	Rank
J	A = 1, B = 0.01	1	-1	0	reject

FIG. 79

Program		PVa = 1 AND PVb = -1		Score	Rank
J	A = 1, B = 0.01	1	-0.01	NA	reject

FIG. 80

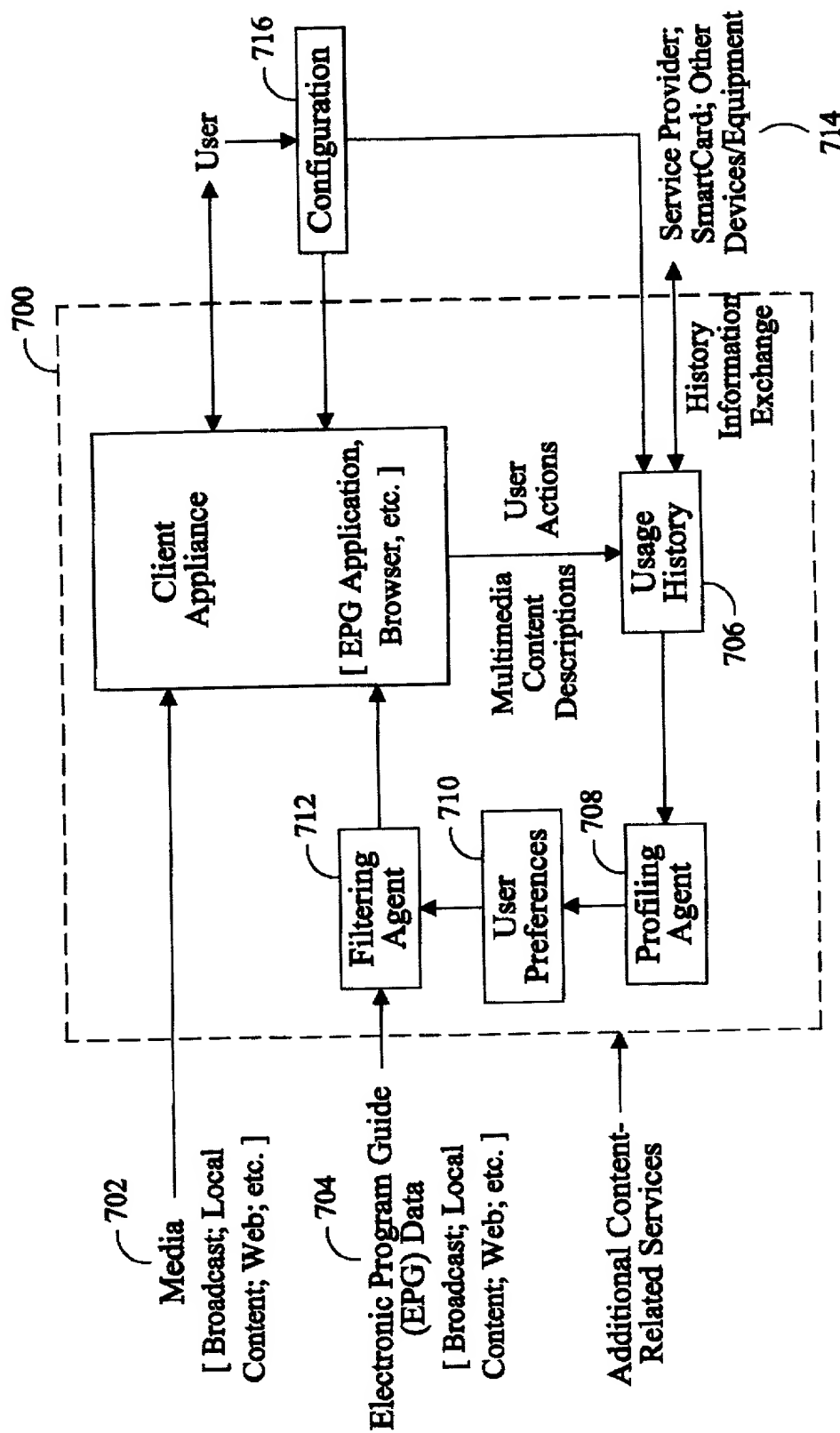


FIG. 81

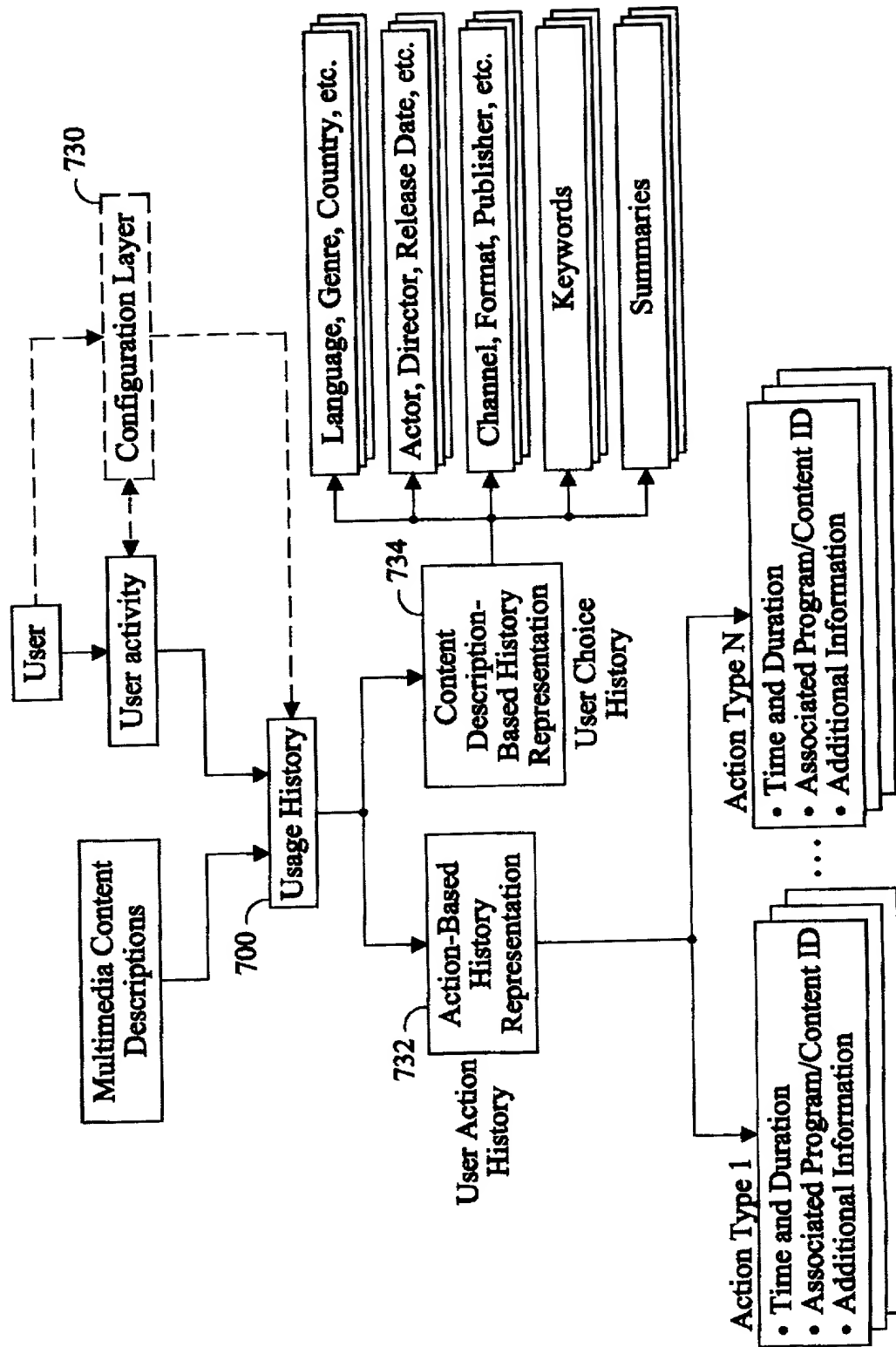


FIG. 82

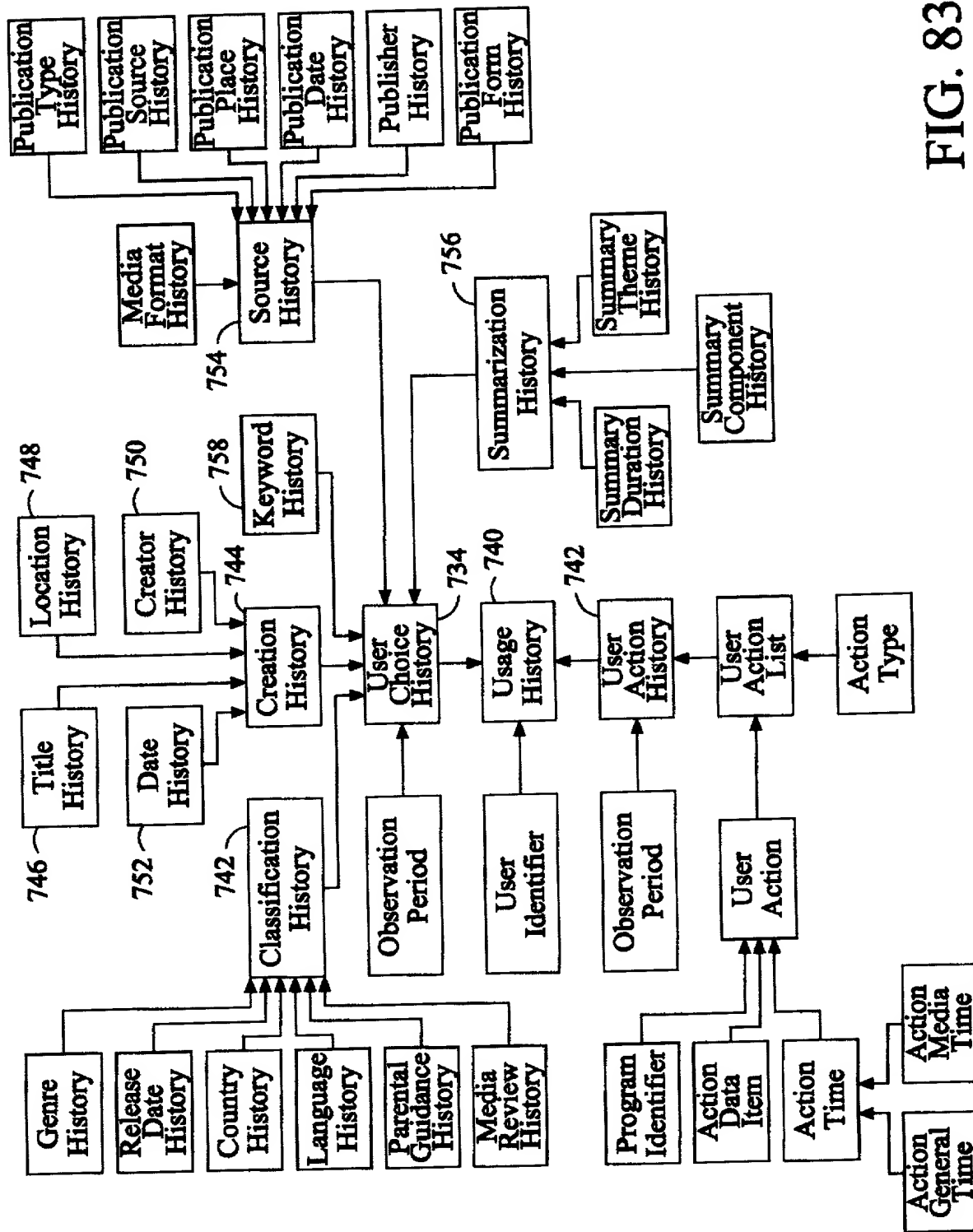


FIG. 83